

CITY COUNCIL AGENDA ITEM COVER MEMO

Agenda Item Number _____

Meeting Type: Regular

Meeting Date: 12/6/2012

Action Requested By:
Engineering

Agenda Item Type
Resolution

Subject Matter:

Agreement with Johnson & Associates Consulting Engineers, L.L.C.

Exact Wording for the Agenda:

Resolution authorizing the Mayor to enter into an agreement with Johnson & Associates Consulting Engineers, L.L.C. for Engineering Design Services for Old Highway 20 Widening Improvements Project from Segers Road to County Line Road, Project No. 65-13-RD03

Note: If amendment, please state title and number of the original

Item to be considered for: Action

Unanimous Consent Required: No

Briefly state why the action is required; why it is recommended; what Council action will provide, allow and accomplish and; any other information that might be helpful.

Engineering services contract to improve Old Highway 20 from two (2) lanes to a five (5) lane roadway with curb and gutter from Segers Road to County Line Road. Design services in a lump sum total contract amount of \$465,731.00. Account No. 23-6500-0813-8154

Associated Cost:

Budgeted Item: Select...

MAYOR RECOMMENDS OR CONCURS: Select...

Department Head:  Date: _____

revised 3/12/2012

ROUTING SLIP CONTRACTS AND AGREEMENTS

Originating Department: **Engineering**

Council Meeting Date: **12/6/2012**

Department Contact: **Lynn Majors**

Phone # **256-427-5201**

Contract or Agreement: **Engineering Design Services**

Document Name: **Old Hwy 20 Widening, Project No. 65-13-RD03**

City Obligation Amount: **\$465,731.00**

Total Project Budget: **\$465,731.00**

Uncommitted Account Balance: **0**

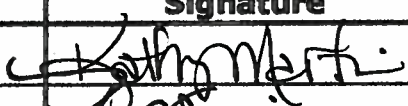


Account Number: **23-6500-0813-8154**

Procurement Agreements

<u>Not Applicable</u>	<u>Not Applicable</u>
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Grant-Funded Agreements

<u>Not Applicable</u>	Grant Name:
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Department	Signature	Date
1) Originating		11-28-12
2) Legal		11-29-12
3) Finance		11/30/12
4) Originating		
5) Copy Distribution		
a. Mayor's office (1 copies)		
b. Clerk-Treasurer (Original & 2 copies)		

RESOLUTION NO. 12-

BE IT RESOLVED by the City Council of the City of Huntsville, Alabama, that the Mayor be, and is hereby authorized, to enter into an agreement with Johnson & Associates Consulting Engineers, L.L.C. in the amount of FOUR HUNDRED SIXTY-FIVE THOUSAND SEVEN HUNDRED THIRTY-ONE AND NO/100 DOLLARS (\$465,731.00) for Engineering Design Services for Old Highway 20 Widening Improvements Project from Segers Road to County Line Road, Project No. 65-13-RD03, in Huntsville, Alabama, on behalf of the City of Huntsville, a municipal corporation in the State of Alabama, which said agreement is substantially in words and figures similar to that document attached hereto and identified as "Agreement between City of Huntsville and Johnson & Associates Consulting Engineers, L.L.C. for Engineering Design Services for Old Highway 20 Widening Improvements Project from Segers Road to County Line Road, Project No. 65-13-RD03" consisting of a total of nineteen (19) pages plus forty-eight (48) additional pages consisting of Attachments 1-15, and the date of December 6, 2012, appearing on the margin of the first page, together with the signature of the President or President Pro Tem of the City Council, and an executed copy of said document being permanently kept on file in the Office of the City Clerk of the City of Huntsville, Alabama.

ADOPTED this the 6th day of December, 2012.

President of the City Council of
the City of Huntsville, Alabama

APPROVED this the 6th day of December, 2012.

Mayor of the City of Huntsville,
Alabama

AGREEMENT BETWEEN
CITY OF HUNTSVILLE, ALABAMA
AND
JOHNSON & ASSOCIATES CONSULTING ENGINEERS, L.L.C.
FOR
ENGINEERING DESIGN SERVICES
FOR
OLD HIGHWAY 20 WIDENING IMPROVEMENTS PROJECT FROM
SEGRS ROAD TO COUNTY LINE ROAD

Project I.D Number 65-13-RD03
December 6, 2012

President of the City Council of the City of
Huntsville, AL
Date: December 6, 2012

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AGREEMENT BETWEEN
CITY OF HUNTSVILLE, ALABAMA
AND
JOHNSON & ASSOCIATES CONSULTING ENGINEERS, L.L.C.
FOR
ENGINEERING DESIGN SERVICES
FOR
OLD HIGHWAY 20 WIDENING IMPROVEMENTS PROJECT FROM
SEGERS ROAD TO COUNTY LINE ROAD

Project I.D Number 65-13-RD03

THIS AGREEMENT made as of the 6th day of December in the year 2012, by and between the CITY OF HUNTSVILLE, ALABAMA (hereinafter called OWNER), and JOHNSON & ASSOCIATES CONSULTING ENGINEERS, L.L.C., (hereinafter called ENGINEER).

WITNESSETH, for the considerations hereinafter set forth, the parties hereto agree as follows:

ARTICLE 1 - ENGAGEMENT OF THE ENGINEER

The OWNER hereby engages the ENGINEER, and the ENGINEER hereby accepts the engagement to provide general engineering and consultation as a representative of the OWNER to include the following:

- 1.1** Professional engineering services for design of Old Highway 20 Widening Improvements Project from Segers Road to County Line Road, as further described in ARTICLE 2, and hereinafter called PROJECT.
- 1.2** By executing this Agreement, the ENGINEER represents to the OWNER that the ENGINEER is a professional qualified to act as the ENGINEER for the PROJECT and is licensed and certified to practice engineering by all public entities having jurisdiction over the ENGINEER and the PROJECT. The ENGINEER further represents to the OWNER that the ENGINEER will maintain all necessary licenses, certifications, permits or other authorizations necessary to act as ENGINEER for the PROJECT until the ENGINEER's remaining duties hereunder have been satisfied. The ENGINEER shall assign only qualified personnel to perform any service concerning the PROJECT. All services rendered by the ENGINEER for the PROJECT shall be performed by or under the immediate supervision of experienced and qualified professionals licensed, certified, and registered as appropriate in the State of Alabama possessing the expertise in the discipline of the service being rendered. The ENGINEER assumes full responsibility to the OWNER for the negligent acts, errors and omissions of its consultants or others employed or retained by the ENGINEER in connection with the PROJECT.
- 1.3** Execution of this Agreement by the ENGINEER constitutes a representation that the ENGINEER has become familiar with the PROJECT site and the local conditions under

which the PROJECT is to be implemented. The ENGINEER agrees to provide all necessary engineering services required to professionally accomplish the ENGINEER's defined scope of services.

ARTICLE 2 – DESIGN SERVICES OF THE ENGINEER

- 2.1** ENGINEER shall provide for OWNER professional engineering services for design of Old Highway 20 Widening Improvements Project from Segers Road to County Line Road.
- 2.2** These services shall include consultation and advice; customary civil, structural, mechanical and electrical engineering design services; and Architectural services incidental thereto, as outlined herein and further described in the SCOPE OF SERVICES, ATTACHMENT 1.
- 2.3** Upon the OWNERS authorization, the ENGINEER shall prepare construction documents consisting of drawings and specifications setting forth in detail the requirements for construction of the PROJECT. The ENGINEER warrants that such construction documents are accurate, coordinated and adequate for the construction and in conformity and comply with applicable laws, codes and regulations. Products specified for use shall be readily available unless written authorization to the contrary is given by the OWNER. Products or materials specified by the ENGINEER that are available from only one source shall be justified in writing by the ENGINEER in order to meet applicable federal, state, or local procurement or bid requirements.
- 2.4** The ENGINEER shall prepare appropriate bid alternates as necessary in order to assure that the PROJECT can be awarded within the PROJECT budget limitations.
- 2.5** The ENGINEER shall serve as the OWNER's professional representative in those portions of the PROJECT to which this Agreement applies and shall consult with and advise the OWNER during the performance of these services.
- 2.6** The ENGINEER shall incorporate into its design, and into its final work products, the requirements contained within the OWNER's engineering standards, standard specifications, and design manuals referenced in ATTACHMENT 3. The requirements of the State of Alabama Department of Transportation design standards shall be reviewed for applicability and incorporated into portions of the work where joint participation between the OWNER and the State is applicable. When conflicts are noted between the OWNERS requirements and standards of others, the OWNERS standards shall take precedent. Discrepancies shall be brought to the attention of the OWNER. Deviations from OWNER's requirements shall be identified to the OWNER by the ENGINEER in writing prior to incorporating the changes.
- 2.7** The ENGINEER shall obtain all Planning Commission approvals with regard to location, character and extent, as required.
- 2.8** The ENGINEER shall obtain a Utility Project Notification Form (Attachment 10) from all affected utilities on the project by the 60% design review stage. Acceptance shall be provided as a signed original by all affected parties at the 90% design review stage.
- 2.9** The ENGINEER shall promptly correct, or have corrected, any errors, omissions, deficiencies or conflicts in the ENGINEER's work product or that of his sub-contractors/sub-consultants, without additional compensation for time, reproduction or distribution.
- 2.10** During the process of design and preparation of the construction documents, the ENGINEER shall review with the OWNER the construction documents, the estimate of probable construction cost, schedule, and other design services issues. Such review shall be, at a minimum, as outlined in ATTACHMENT 4 as 0%, 30%, 60%, and 90% completion stage.

Following such reviews, the ENGINEER shall make any appropriate revisions thereto to assure compliance with the OWNER's requirements.

- 2.11** Field surveying work is required and shall be performed in accordance with "Standards of Practice for Surveying in the State of Alabama" as required by the Alabama Board of Registration for Engineering and Land Surveyors. Surveying shall include P.K. Nails or other permanent stationing markings as well as staking of right-of-way, easements and parcels of land acquired by the City of Huntsville. Property corners shall be set at the new right-of-way. Easements shall be staked as requested by the City of Huntsville. The above field work shall be performed as a minimum as needed at the time of right-of-way acquisition and one additional time near the 100% submittal stage as determined by the OWNER. The cost for these services is included in the fees for Basic Services.

Survey data shall be based on a US Public Land Survey System corner or quarter corner. Said corner or quarter corner shall be field verified by the surveyor and a state plane coordinate provided in deliverables submitted to the City of Huntsville. All survey work shall be based on the following datum's:

Coordinate System:	US State Plane
Zone:	Alabama East 0101
Vertical Datum:	The North American Vertical Datum of 1988 (NAVD 88)
Horizontal Datum:	The North American Datum of 1983 (NAD 83)
Geoid Model:	Geoid03
Units:	US Survey Feet

- 2.12** The ENGINEER shall comply with the City of Huntsville Tree Ordinance and carry the requirements referenced therein with deliverables (drawings, specifications, etc.) in accordance with Section 27-57 of the City of Huntsville Code of Ordinances (Ord. No. 04-45, §13, 2-12-2004).
- 2.13** The ENGINEER shall prepare the prebid agenda after obtaining comments from stakeholders such as affected utilities, City of Huntsville Construction Project Engineer and Inspector(s), and other City of Huntsville departments as applicable. The ENGINEER shall moderate the prebid meeting, prepare meeting minutes, make clarifications, prepare addendums, and distribute to bidders.
- 2.14** A valid City of Huntsville license shall be maintained throughout the term of this contract. Additionally, the engineering firm shall be required to obtain and pay for all other federal, state or local permits, licenses, and fees which may be necessary or required in order to perform the work detailed herein.

ARTICLE 3 - CONSTRUCTION ADMINISTRATION SERVICES

OMITTED

ARTICLE 4 - ADDITIONAL SERVICES

The following services of the ENGINEER are not included in Article 2. Nevertheless, the ENGINEER shall provide such services if authorized in writing by the OWNER, and they shall be paid for by the OWNER as provided in Article 7, unless otherwise noted.

- 4.1** Making revision in drawings, specifications or other documents when such revisions are inconsistent with written direction by the OWNER previously given, are required by the enactment of revision of codes, laws or regulations subsequent to the preparation of such

documents and not reasonably anticipated, or are due to other causes not within the control or responsibility of the ENGINEER, either in whole or in part.

- 4.2 Preparing drawings, specifications and supporting data in connection with change orders, provided that such change orders are issued by the OWNER due to causes not within the control or responsibility of the ENGINEER, either in whole or in part.
- 4.3 Providing additional services for repair or replacement of work damaged by acts of God or other cause during construction provided that such services are required by causes not the responsibility of the ENGINEER, either in whole or in part.
- 4.4 Providing services not otherwise required herein which are made necessary solely by the default of the ENGINEER or major defects or deficiencies in the work of the ENGINEER. These services shall be provided with no increase in the contract amount and will not be compensable on an hourly basis.
- 4.5 Providing expert witness services and other services arising out of claims.
- 4.6 Provide services to stake site during construction.

ARTICLE 5 - RESPONSIBILITIES OF OWNER

The OWNER, without cost to the ENGINEER, will perform the following in a timely manner so as not to delay the services of the ENGINEER:

- 5.1 Assist ENGINEER by placing at ENGINEER's disposal all available information pertinent to the PROJECT including previous reports and any other data relative to design or construction of the PROJECT.
- 5.2 Provide all criteria and full information as to OWNER's requirements for the PROJECT, including design objectives and constraints, space, capacity and performance requirements, flexibility and expendability, and any budgetary limitations. The OWNER shall also furnish copies of all design and construction standards, which OWNER will require to be included in the drawings and specifications.
- 5.3 Assist the ENGINEER as necessary in acquiring access to and making all provisions for the ENGINEER to enter upon public and private lands as required for the ENGINEER to perform the work under this agreement.
- 5.4 Designate in writing a person to act as the OWNER's representative with respect to the work to be performed under this Agreement, such person to have complete authority to transmit instructions, receive information, interpret and define the OWNER's policies and decision with respect to materials, equipment elements and systems pertinent to the work covered by this Agreement. Examine all studies, reports, sketches, drawings, specifications, proposals and other documents presented by ENGINEER, obtain advice of an attorney, insurance counselor and other consultants as OWNER determines appropriate for such examination and render in writing decisions pertaining thereto within a reasonable time so as not to delay the services of ENGINEER.
- 5.5 When requested by the ENGINEER, the OWNER will intercede on the ENGINEER's behalf when data from, or reviewed by third parties is not on schedule through no fault of the ENGINEER
- 5.6 The OWNER's review of any documents prepared by the ENGINEER or its consultants shall be solely for the purpose of determining whether such documents are generally consistent

with the OWNER's intent. No review of such documents shall relieve the ENGINEER of its responsibility for the accuracy, adequacy, fitness, suitability and coordination of its work product.

ARTICLE 6 - PERIOD OF SERVICES

- 6.1** The ENGINEER shall commence services pursuant to this agreement as of December 7, 2012. The final completion date for the completion of design services as outlined in Article 2 shall be March 7, 2014.

The ENGINEER shall perform these services with reasonable diligence and expediency consistent with sound professional practices. The ENGINEER shall include in his schedule an allowance for time required for OWNER's review of submissions and for approvals of authorities having jurisdiction over the PROJECT. When approved by the OWNER, the schedule shall not be exceeded by the ENGINEER, except for cause.

If the ENGINEER becomes aware of delays due to time allowances for review and approval being exceeded, delay by the OWNER, the OWNER's consultants, or any other reason beyond the ENGINEER's control, which may result in the schedule of performance of the ENGINEER's services not being met, the ENGINEER shall promptly notify the OWNER. If the OWNER becomes aware of any delays or other causes that will affect the ENGINEER's schedule, the OWNER shall promptly notify the ENGINEER. In either event, the ENGINEER's schedule for performance of its services shall be equitably adjusted.

ARTICLE 7 - PAYMENT TO THE ENGINEER

7.1 BASIC SERVICES

The OWNER shall compensate the ENGINEER for services rendered pursuant to this Agreement, excepting those services described as Additional Services in Article 4 of this Agreement, by payment of the LUMP SUM CONTRACT AMOUNT OF FOUR HUNDRED SIXTY-FIVE THOUSAND SEVEN HUNDRED THIRTY-ONE AND NO/100 DOLLARS (\$465,731.00) for design services as described in Article 2. Additional services of the ENGINEER as described in Article 4, if any, shall be compensated on an hourly basis in accordance with Attachment 5.

7.2 REIMBURSABLE EXPENSES

The scope of work for sub-contracted services is defined in the ENGINEER's scope of services, Attachment 1. The scope includes provisions for administration expenses for subcontracted services and reimbursable direct expenses including but not limited to laboratory tests and analyses; computer services; word processing services; permit fees, bonds, telephone, printing, binding and reproduction charges; and other similar costs. Indirect costs will have administrative fee reimbursements limited to no more than 5%. Direct costs are also limited to no more than 5% reimbursement.

Reimbursable expenses shall be limited during the term of this agreement as stated in Art. 7.1 Basic Services.

7.3 EFFECTIVE DATE

This contract shall have no force or effect unless and until it is executed by the OWNER and the ENGINEER and a properly executed copy is mailed to the ENGINEER with a notice to proceed (NTP). If a NTP is not issued within sixty (60) days commencing from the last date of execution of this CONTRACT by the OWNER and the ENGINEER, then this CONTRACT shall be NULL AND VOID, the OWNER will not be obligated to any

payment to the ENGINEER and the ENGINEER will not be obligated to perform any work under said CONTRACT.

PAYMENT SUMMARY

Engineering Design Services – LUMP SUM AMOUNT OF \$465,731.00

TOTAL CONTRACT AMOUNT: **\$465,731.00**

ARTICLE 8 - GENERAL PAYMENT PROCEDURE

8.1 INVOICES

8.1.1 The ENGINEER shall submit monthly invoices to the Administrative Officer in the Engineering Department, for the basic services described under Articles 2 and 4 for the design of the PROJECT. Invoices must include the City of Huntsville project name and number, dates of services, contract amount, previous billings and current billing. Along with each invoice, the ENGINEER must submit a consultant progress report known as Attachment 6. No payment will be made without the consultant progress report completed and attached. Monthly progress reports shall be submitted monthly even if no request for payment is made. If services under Article 4 are included in the invoice for additional services not included under the lump sum provisions, or services billed as time and material, the classification and hours of such persons rendering the services shall be attached to the invoice.

8.1.2 The signature of the ENGINEER on the invoice shall constitute the ENGINEER's representation to the OWNER that the services indicated in the invoice have progressed to the level indicated, have been properly and timely performed as required herein, that the reimbursable expenses included in the invoice have been reasonably incurred, that all obligations of the ENGINEER covered by prior invoices have been paid in full, and that, to the best of the ENGINEER's knowledge, information and informed belief, the amount requested is currently due and owing, there being no reason known to the ENGINEER the payment of any portion thereof should be withheld. Submission of the ENGINEER's invoice for final payment and reimbursement shall further constitute the ENGINEER's representation to the OWNER that, upon receipt from the OWNER of the amount invoiced, all obligations of the ENGINEER to others, including its consultants, incurred in connection with the PROJECT, have been paid in full. ENGINEER must designate on Attachment 6 – Progress Report in the appropriate space provided that such action has been completed.

8.2 TIME FOR PAYMENT

The OWNER shall make payment for services in Articles 2 and 4 within 60 days of receipt of valid invoice.

8.3 OWNER'S RIGHT TO WITHHOLD PAYMENT

In the event the OWNER becomes credibly informed that any representations of the ENGINEER, provided pursuant to Article 8.1.2, are wholly or partially inaccurate, the OWNER may withhold payment of sums then or in the future otherwise due to the ENGINEER until the inaccuracy, and the cause thereof, is corrected to the OWNER's reasonable satisfaction. Additionally, failure by the ENGINEER to supply substantiating records shall be reason to

exclude related costs from the amounts which might otherwise be payable by the OWNER to the ENGINEER.

8.4 REIMBURSABLE EXPENSES

8.4.1 In addition to the requirements set forth in 8.1 above, invoices for reimbursable expenses shall include such documentation as the OWNER may require. Reasonable expenses are limited to the following expenses:

- (a) Transportation outside the immediate Huntsville area (50 mile radius) approved in advance by the OWNER in writing and incurred in connection with the PROJECT; (Per Department of Treasury, Internal Revenue Service Publication 1542, Per Diem Rates, for travel within the continental United States). Refer to website: www.irs.gov/pub/irs-pdf/p1542.pdf for more information.
- (b) Charges for long-distance communications;
- (c) Fees paid for securing approval of authorities having jurisdiction over the PROJECT,
- (d) Actual costs of reproduction for items in excess of those included in the required services;
- (e) Postage and handling charges incurred for drawings, specifications and other documents.

8.4.2 The ENGINEER shall set forth with particularity on its invoice the nature and cost of the expense item being billed, and attach to its invoice the written authorization, if any, required for such item; and shall bill expenses at actual cost or prevailing rate and without the addition of administrative charge, any multiple or surcharge.

8.5 W-9 TAXPAYER FORM

All ENGINEERING FIRMS are required to submit a Federal Tax Form W-9 to City of Huntsville at the time a contract is awarded. No payments of invoices can be made until this W-9 Tax Form has been properly submitted. A copy of the W-9 Tax Form can be requested from the OWNER or at the following website: www.irs.ustreas.gov/pub/irs-pdf/fw9.pdf.

ARTICLE 9 - GENERAL CONSIDERATIONS

9.1 GENERAL

OWNER and ENGINEER agree that the following sections and provisions shall apply to the work to be performed under this Agreement and that such provisions shall supersede any conflicting provisions of this Agreement.

9.2 SUB-CONTRACTED SPECIALIZED SERVICES

The ENGINEER may sub-contract specialized services required of the PROJECT to competent and experienced sub-consultants approved by the OWNER in writing. As a prime professional, the ENGINEER shall act as OWNER's representative for contracting, directing, and managing the services of sub-consultants. The OWNER shall have the right to reject any consultant provided that the OWNER raises a timely objection. At the time of the execution of this Agreement, the parties anticipate that the consultants listed in Attachment "7" hereto will be retained by the ENGINEER to provide services with respect to the PROJECT. Expenses payable to the ENGINEER for subcontracted services are limited to no more than 5% of the cost of the subcontracted services.

9.3 PEER REVIEW

The OWNER reserves the right to conduct, at the OWNER's expense, peer review of designs and drawings prepared by the ENGINEER and/or sub-consultant(s) for the PROJECT. The ENGINEER and sub-consultant(s) agree that knowledge and consent to review of their work by other engineers of the OWNER's choosing is hereby given in accordance with the ADMINISTRATIVE CODE (RULES AND REGULATIONS) of the Alabama State Board of Licensure for Professional Engineers and Land Surveyors, Chapter 330-X-14-.06(a) (13) effective January 2008 and as may be amended now or in the future pertaining to the Code of Ethics for review of the work of another engineer.

9.4 CLARIFICATION OF WORK

If reviewing agencies raise questions regarding the work of ENGINEER, OWNER will participate in such meetings as deemed necessary to explain and clarify this work.

9.5 CANCELLATION OF WORK

This Agreement may be canceled by either party in the event of default or violation of any of the provisions of this Agreement by the other party, by written notice delivered to the address of record by registered mail giving ten (10) days advance notice of the intention to cancel. In the event of cancellation of this Agreement, ENGINEER shall be paid for all work performed to date of cancellation, less any loss, damage, or liability incurred by reason of default of ENGINEER and all records, data, parameters, design calculations and other information collected or obtained in the performance of this Agreement shall be delivered to OWNER.

9.6 CHANGES

9.6.1 The OWNER may, at any time by written order, make changes within the general scope of the Agreement in the services to be provided. If such changes cause an increase or decrease in ENGINEER's cost of, or time required for performance of any services, whether or not changed by any order, an equitable adjustment shall be made and the Agreement shall be modified in writing accordingly. Upon notification of change, ENGINEER must assert any claim of ENGINEER for adjustment in writing within 30 days from the date of receipt unless OWNER grants a further period of time.

9.6.2 If findings in any phase of this PROJECT significantly alter the scope of work for subsequent phases, or if regulations are changed resulting in a scope of work change for any phase, engineering fees set forth in Article 7 may be renegotiated by the OWNER and ENGINEER.

9.7 ENGINEER'S RECORDS

Documentation accurately reflecting services performed and the time expended by the ENGINEER and his personnel and records of reimbursable expenses shall be prepared concurrently with the performance of the services and shall be maintained by the ENGINEER. The ENGINEER shall maintain record copies of all written communications, and any memoranda of verbal communications related to the PROJECT. All such records and documentation shall be maintained for a minimum of five (5) years after the PROJECT date of final completion or for any longer period of time as may be required by law or good practice. If the ENGINEER receives notification of a dispute or of pending or commencement of litigation during this five-year period, the ENGINEER shall continue to maintain all PROJECT records until final resolution of the dispute or litigation. The ENGINEER shall make such records and documentation available to the OWNER upon notice and shall allow

the authorized representative(s) of the OWNER to inspect, examine, review and copy the ENGINEER's records at the OWNER's reasonable expense.

9.8 USE AND OWNERSHIP OF DOCUMENTS

All rights of ownership, copyrights, construction documents, including all drawings, specifications and other documents, electronic media, computer source code, or things prepared by or on behalf of the ENGINEER for the PROJECT are hereby transferred to the OWNER and shall be the sole property of the OWNER and are free of any retention rights of the ENGINEER. The ENGINEER hereby grants to the OWNER an unconditional right to use or to refer to, for any purpose whatsoever, the construction documents and any other documents or electronic media, computer source code prepared by or on behalf of the ENGINEER for the PROJECT, free of any copyright claims, trade secrets or other proprietary rights with respect to such documents. The ENGINEER shall be permitted to retain copies thereof for its records. The ENGINEER's documents and other work products are not intended or represented to be suitable for re-use by OWNER or others on extensions of the PROJECT or on any other PROJECT. Any re-use without specific written verification or adaptation by ENGINEER will be at OWNER's sole risk and without liability or legal exposure to ENGINEER, and OWNER shall indemnify and hold harmless ENGINEER from all claims, damages, losses and expenses including attorneys' fees arising out of, or resulting from, such reuse by the OWNER; provided however, that this agreement to indemnify and save harmless shall not apply to any reuse of documents retained by, or through, the ENGINEER.

9.9 ESTIMATE OF CONSTRUCTION COST

Since ENGINEER has no control over the construction cost of labor, materials, or equipment, or over the construction contractor(s) methods of determining prices, or over competitive bidding or market conditions, his opinion of probable PROJECT cost or construction cost provided for herein are to be made on the basis of his experience and qualifications and represent his best judgment as a design professional familiar with the construction industry; but, ENGINEER cannot and does not guarantee that proposals, bids or construction costs will not vary from opinions of probable cost prepared by him. If OWNER wishes greater assurance as to the construction cost, he will employ an independent cost estimator.

9.10 TERMINATION FOR CAUSE

This Agreement may be terminated by either party upon seven (7) days written notice to the other should such other party fail substantially to perform in accordance with its material terms through no fault of the party initiating the termination.

9.11 TERMINATION BY THE OWNER WITHOUT CAUSE

The OWNER may terminate this Agreement without cause upon seven (7) days' written notice to the ENGINEER. In the event of such a termination without cause, the ENGINEER shall be compensated for all services performed prior to termination, together with Reimbursable Expenses incurred. In such event, the ENGINEER shall promptly submit to the OWNER its invoice for final payment and reimbursement which invoice shall comply with the provisions of Paragraph 8.1.

ARTICLE 10 - INDEMNITY AND INSURANCE

10.1 INSURANCE

The ENGINEER shall carry insurance of the following kinds and amounts in addition to any other forms of insurance or bonds required under the terms of the contract specifications. The ENGINEER shall procure and maintain for the duration of the job until final acceptance by the OWNER, or as later indicated, insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the ENGINEER, his agents, representatives, employees or subcontractor.

10.2 MINIMUM SCOPE OF INSURANCE:

A. General Liability:

Insurance shall be written on an occurrence basis. Claims-made coverage will be accepted only on an exception basis after the OWNER's approval. The same insurance company should write General Liability Coverage and OWNERs ENGINEERs Protective Insurance.

B. Commercial General Liability

Products and Completed Operations
Contractual
Personal Injury
Explosion, Collapse and Underground
Broad Form Property Damage

C. Professional Liability:

Insurance may be written on a "claims-made" basis, providing coverage for negligent acts, errors or omissions in the performance of professional services. Coverage shall be maintained for a discovery and reporting period of no less than five (5) years after completion of the professional services and Certificates of Insurance shall be submitted to the OWNER on a yearly basis during this time frame. Coverage shall be no less comprehensive than that which is carried by at least 25% of the registered engineers or engineering firms contracting in the State of Alabama. Such coverage shall be carried on a continuous basis including prior acts coverage to cover the subject PROJECT. The professional liability insurance shall contain contractual liability coverage.

D. Automobile Liability:

Business Automobile Liability providing coverage for all owned, hired and non-owned autos. Coverage for loading and unloading shall be provided under either automobile liability or general liability policy forms.

E. Workers' Compensation Insurance:

Statutory protection against bodily injury, sickness or disease or death sustained by employee in the scope of employment. Protection shall be provided by a commercial insurance company or a recognized self-insurance fund authorized before the State of Alabama Industrial Board of Relations. "Waivers of Subrogation" in favor of the OWNER shall be endorsed to Workers' Compensation Insurance.

F. Employers Liability Insurance:

Covering common law claims of injured employees made in lieu of or in addition to a worker's compensation claim.

10.3 MINIMUM LIMITS OF INSURANCE:

A. General Liability:

Commercial General Liability on an "occurrence form" for bodily injury and property damage:

\$ 2,000,000 General Aggregate Limit
\$ 2,000,000 Products - Completed Operations Aggregate
\$ 1,000,000 Personal & Advertising Injury
\$ 1,000,000 Each Occurrence

B. Professional Liability:

Insurance may be made on a "claims-made" basis:

\$ 500,000 Per Claim - Land Surveyors
\$ 1,000,000 Per Claim - Other Professionals

C. Automobile Liability:

\$ 1,000,000 Combined Single Limit per accident for bodily injury and property damage.

D. Workers' Compensation:

As required by the State of Alabama Statute

E. Employers Liability:

\$ 1,000,000 Bodily Injury by Accident or Disease
\$ 1,000,000 Policy Limit by Disease

10.4 OTHER INSURANCE PROVISIONS:

The OWNER is hereby authorized to adjust the requirements set forth in this document in the event it is determined that such adjustment is in the OWNER's best interest. If the insurance requirements are not adjusted by the OWNER prior to the OWNER's release of specifications with regard to the PROJECT in question, then the minimum limits shall apply. The City of Huntsville/OWNER shall be named on the policies of general liability and automobile insurance and on the certificate of insurance as an Additional Insured. Additional Insured status on the Commercial General Liability policy shall be through ISO Additional Endorsement CG 20 10 11 85 or equivalent and coverage shall be afforded on a primary basis.

The policies are to contain, or be endorsed to contain, the following provisions:

A. All Coverage:

The ENGINEER is responsible to pay all deductibles. Each insurance policy required by this clause shall be endorsed to state that coverage shall not be suspended, voided, canceled, non-renewal or materially changed by either party, reduced in coverage or in limits except after thirty (30) days' prior written notice by certified mail, return receipt requested, has been given to the OWNER. Cancellation of coverage for non-payment of premium will require ten (10) days written notice to the OWNER.

10.5 ACCEPTABILITY OF INSURERS:

Insurance is to be placed with insurers authorized by the State of Alabama with an A. M. Best rating of A-V or better.

10.6 VERIFICATION OF COVERAGE:

The OWNER shall be indicated as a Certificate Holder and the ENGINEER shall furnish the OWNER with Certificates of Insurance reflecting the coverage required by this document. The A. M. Best rating and deductibles, if applicable, shall be indicated on the Certificate of Insurance for each insurance policy. The certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf and must be an original signature. Certificates signed using digital signatures will not be accepted. All certificates are to be received and approved by the OWNER before work commences. The OWNER reserves the right to require complete, certified copies of all required insurance policies at any time.

10.7 CONSULTANTS AND/OR SUBCONTRACTORS WORKING FOR THE ENGINEER:

The ENGINEER shall furnish separate certificates and/or endorsements for each subcontractor and/or consultant showing insurance of the same type or types and to the extent of the coverage set forth in this Article 10.

10.8 HOLD HARMLESS AGREEMENT:

A. Other Than Professional Liability Exposures:

The ENGINEER, to the fullest extent permitted by law, shall indemnify and hold harmless the OWNER, its elected and appointed officials, employees, agents, and representatives against all claims, damages, losses and expenses, including, but not limited to, attorney's fees, arising out of or resulting from the performance of the work, provided that any such claim, damage, loss or expense (1) is attributable to personal injury, including bodily injury sickness, disease or death, or to injury to or destruction of tangible property, including loss of use resulting there from, and (2) is caused by any negligent act or omission of the ENGINEER or any of their consultants, or anyone directly or indirectly employed by them or anyone for whose acts they are legally liable. Such obligation should not be construed to negate, abridge, or otherwise reduce any other right or obligation of indemnity, which would otherwise exist as to any party or person, described in this paragraph.

B. Professional Liability:

The ENGINEER agrees, to the fullest extent permitted by law, to defend, protect, indemnify and hold harmless the OWNER, its elected and appointed officials, officers, directors, employees, agents, and representatives from and against any and all liability, claims, demands, damages, loss, costs, fees, and expenses (including actual fees and expenses of attorneys, expert witnesses, and other consultants) actually or allegedly arising out of, or resulting from, the professional services of the ENGINEER or the ENGINEER's consultants, subcontractors, or suppliers, including, without limitation, any breach of contract or any negligent acts, errors, or omissions in the performance of the professional services provided pursuant to or as a result of this Agreement. Neither, the OWNER nor the ENGINEER shall be obligated to indemnify the other party in any manner whatsoever for the other parties own negligence. The OWNER agrees, to the fullest extent permitted by law, to indemnify and hold harmless the ENGINEER, its officers, directors, employees and sub consultants against all damages, liabilities or cost including reasonable attorney's fees and defense cost, to the extent caused by the OWNER's negligence acts in connection with the PROJECT and acts of its contractors, subcontractors, or consultants or anyone for whom the client is legally liable.

To the fullest extent permitted by law, the ENGINEER shall defend, protect, indemnify, and hold harmless the OWNER, its elected and appointed officials, officers, directors, employees, agents, and representatives from and against any and all liability, claims, demands, damages, loss, costs, fees and expenses (including actual fees and expenses of attorneys, expert witnesses, and other consultants) for infringement of patent rights, copyrights, or other intellectual property rights, except with respect to designs, processes or products of a particular manufacturer expressly required by the OWNER in writing. If the ENGINEER has reason to believe the use of a required design, process or product is an infringement of a patent, the ENGINEER shall be responsible for such loss unless such information is promptly given to the OWNER.

ARTICLE 11- MISCELLANEOUS PROVISIONS

11.1 GOVERNING LAW

This Agreement shall be governed by the law of the State of Alabama.

11.2 INTENT AND INTERPRETATION

11.2.1 The intent of this contract is to require complete, correct and timely execution of the work. Any work that may be required, implied or inferred by the contract documents, or any one or more of them, as necessary to produce the intended result shall be provided by the ENGINEER.

11.2.2 This contract is intended to be an integral whole and shall be interpreted as internally consistent. What is required by any one contract document shall be considered as required by the contract.

11.2.3 When a word, term or phrase is used in this contract, it shall be interpreted or construed, first, as defined herein; second, if not defined, according to its generally accepted meaning in the engineering industry; and third, if there is no generally accepted meaning in the engineering industry, according to its common and customary usage.

11.2.4 The words "include", "includes", or "including", as used in this contract, shall be deemed to be followed by the phrase, "without limitation".

11.2.5 The specification herein of any act, failure, refusal, omission, event, occurrence or condition as constituting a material breach of this contract shall not imply that any other, non-specified act, failure, refusal, omission, event, occurrence or condition shall be deemed not to constitute a material breach of this contract.

11.2.6 Words or terms used as nouns in this contract shall be inclusive of their singular and plural forms, unless the context of their usage clearly requires a contrary meaning.

11.3 TIME IS OF THE ESSENCE

Time limitations contained herein, or provided for hereby, are of the essence of this Agreement. The ENGINEER understands and acknowledges that time is of the essence in completion of the PROJECT and that the OWNER will incur damages if the PROJECT is not completed on time.

11.4 SUCCESSORS AND ASSIGNS

The ENGINEER shall not assign its rights hereunder, excepting its right to payment, nor shall it delegate any of its duties hereunder without the written consent of the OWNER. Subject to the provisions of the immediately preceding sentence, the OWNER and the ENGINEER, respectively, bind themselves, their successors, assigns and legal representatives to the other party to this Agreement and to the successors, assigns and legal representatives of such other party with respect to all covenants of this Agreement. Nothing herein shall be construed as creating any personal liability on the part of any officer or agent of any public body that may be party hereof, nor shall it be construed as giving any rights or benefits hereunder to anyone other than OWNER and ENGINEER.

11.5 NO THIRD-PARTY BENEFICIARIES

This Agreement shall inure solely to the benefit of the parties hereto and their successors and assigns. Nothing contained herein is intended to or shall create a contractual relationship with, or any rights in favor of, or any cause of action in favor of, any third party, against the OWNER or the ENGINEER.

11.6 INTELLECTUAL PROPERTY/ CONFIDENTIALITY

All information, documents, and electronic media, computer source code furnished by the OWNER to the ENGINEER belong to the OWNER, are considered proprietary and confidential, unless otherwise indicated by the OWNER, and are furnished solely for use on the OWNER's PROJECT. Such information, documents, and electronic media, computer source code shall be kept confidential by the ENGINEER, shall only be released as necessary to meet official regulatory requirements in connection with the PROJECT, and shall not be used by the ENGINEER on any other PROJECT or in connection with any other person or entity, unless disclosure or use thereof in connection with any matter other than services rendered to the OWNER hereunder is specifically authorized in writing by the OWNER in advance.

11.7 SUBCONTRACT REQUIREMENTS

The ENGINEER shall include the terms and conditions of this Agreement in every subcontract or agreement with a consultant for this PROJECT so that these terms and conditions shall be binding upon each subcontractor or consultant. The subcontractor(s)/consultant(s) will maintain all licenses and certifications to practice

engineering by all public entities having jurisdiction over the PROJECT. The subcontractor (s)/consultant(s) further represent to the OWNER that the subcontractor(s)/consultant(s) will maintain all necessary licenses, certifications, permits or other authorizations necessary for the PROJECT until the remaining duties hereunder have been satisfied.

11.8 NOTICES

Unless otherwise provided, all notices shall be in writing and considered duly given if the original is hand delivered; if delivered by facsimile to 256-427-5325, or is sent by U.S. Mail, postage prepaid to City of Huntsville Engineering, P. O. Box 308 (35804), 320 Fountain Circle (35801), Huntsville, AL. All notices shall be given to the addresses set forth above. Notices, hand delivered or delivered by facsimile, shall be deemed given the next business day following the date of delivery. Notices given by U.S. Mail shall be deemed given as of the second business day following the date of posting.

11.9 STRICT COMPLIANCE

No failure of the OWNER to insist upon strict compliance by the ENGINEER with any provision of this Contract for Professional Services shall operate to release, waive, discharge, modify, change or affect any of the ENGINEER's obligations.

11.10 WAIVER

No provision of this Agreement may be waived except by written agreement of the parties. A waiver of any provision on one occasion shall not be deemed a waiver of that provision on any subsequent occasion, unless specifically stated in writing. A waiver of any provision shall not affect or alter the remaining provisions of this Agreement.

11.11 SEVERABILITY

If any provision of this Agreement, or the application thereof, is determined to be invalid or unenforceable, the remainder of that provision and all other provisions of this Agreement shall remain valid and enforceable.

11.12 ETHICS

The ENGINEER shall not offer or accept any bribes or kickbacks from or to any manufacturer, consultant, trade contractor, subcontractor, supplier or any other individual or entity in connection with the PROJECT. The ENGINEER shall not confer on any governmental, public or quasi-public official having any authority or influence over the PROJECT any payment, loan, subscription, advance, deposit of money, services or anything of more than nominal value, present or promised. The ENGINEER shall not, without the express written permission of the OWNER, engage or recommend to the OWNER engagement of any consultant, trade contractor, subcontractor, or supplier to provide services on behalf of the ENGINEER, OWNER or PROJECT in which the ENGINEER has a direct or indirect proprietary or other pecuniary interest; or call for the use of or by exclusion require or recommend the use of products, materials, equipment, systems, processes or procedures in which the ENGINEER or in which any consultant, trade contractor, subcontractor, or supplier of the ENGINEER has a direct or indirect proprietary or other pecuniary interest. Without prior notification and written approval of the OWNER, the ENGINEER and the ENGINEER'S subconsultants shall not offer services to the OWNER'S contractor.

11.13 ALABAMA IMMIGRATION ACT

Compliance with the requirements of the (Beason-Hammon Alabama Taxpayer and Citizen Protection Act, Act No. 2012-535, Code of Alabama (1975) § 31-13-1 through 31-13-30, commonly referred to as the Alabama Immigration Law, is required for City of Huntsville, Alabama contracts as a condition of the contract performance. As a condition of this agreement, pursuant to Act No. 2012-535, Code of Alabama (1975) § 31-13-1 through 31-13-30, compliance with this requirement shall be done by the ENGINEER by completion of the "City of Huntsville, Alabama Report of Ownership Form" listed as Attachment 2 in this agreement and returning the completed form to the Engineering Division either by fax to 256/427-5325 to the attention of Mary Hollingsworth, hand delivery or mail to: City of Huntsville Engineering Division, P. O. Box 308, Huntsville, AL 35804, or via email to Mary.Hollingsworth@huntsvilleal.gov. The form shall be returned at the time of the signing of the contract by the ENGINEER and must be submitted before the contract is presented to the City of Huntsville City Council for approval.

11.14 E-VERIFY – NOTICE

The ENGINEER shall enroll, and shall remain enrolled for the duration of this contract, in a designated employment eligibility verification system (E-Verify) in accordance with the City of Huntsville Ordinance 09-735. If the ENGINEER uses subcontractors in connection with the performance of work herein and the value of the subcontract exceeds \$3,000, the subcontractor shall also comply with this ordinance. The ENGINEER shall include specific written notice in all requests for bids or proposals prepared by the ENGINEER that contractors and any subcontractors are required to enroll in the E-verify program as required by the ordinance. Failure to comply with the requirements of the ordinance shall be a material breach of the contract.

As a condition of this agreement, pursuant to 8 U.S.C. § 1324a, Johnson & Associates Consulting Engineers, L.L.C. hereby certifies that it has not knowingly employed, recruited, referred for a fee, or contracted with an unauthorized alien, with respect to employment in the United States. Further, Johnson & Associates Consulting Engineers, L.L.C. hereby certifies that it has enrolled in the City of Huntsville designated employment eligibility verification system in accordance with Ordinance 09-735 and will maintain enrollment throughout the term of this contract.

Johnson & Associates Consulting Engineers, L.L.C.
(Company)

BY: 
(Authorized Representative)

11.15 ENTIRE AGREEMENT

This Agreement represents the entire agreement between the OWNER and the ENGINEER and supersedes all prior communications, negotiations, representations or agreements, either written or oral. This agreement may be amended only by written instrument signed by both OWNER and ENGINEER.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

OWNER:
CITY OF HUNTSVILLE

BY: _____
Tommy Battle

TITLE: _____
Mayor

ATTEST: _____

Given under my hand this _____ day

Of _____, 2012.

Notary Public

My commission expires _____

ENGINEER:
JOHNSON & ASSOCIATES
CONSULTING ENGINEERS, L.L.C.

BY: _____
Nathan Johnson

TITLE: _____
Managing Member

ATTEST: _____

Given under my hand this 28th day

Of November, 2012.

Mary A. Hollingsworth
Notary Public

My commission expires 3/28/2015

ATTACHMENT 1-SCOPE OF SERVICES

(Refer to Letter dated November 19, 2012, from Nathan Johnson to Shane Davis and attachments).



November 19, 2012

Mr. Shane Davis, PE
Director of Urban Development
City of Huntsville
P. O. Box 808
Huntsville, AL 35804-0308

RE: Scope of Services for Engineering and Land Surveying Services with respect to the
Old Hwy. 20 Widening Improvements Project from Segers Road to County Line Road
(approximately 1.9 miles of main road and 0.28 miles of side roads), Huntsville, Alabama
Project No. _____

Attachment 1

Dear Mr. Davis:

Johnson & Associates Consulting Engineers, LLC (hereinafter referred to as ENGINEER) is pleased to offer our civil engineering and land surveying services to the City of Huntsville, Alabama (hereinafter referred to as OWNER or CITY) with respect to the above-referenced project.

All designs and plan development will be prepared to ALDOT guidelines and standards. All work outlined in the Scope of Services below and the attached Excel spreadsheet will be performed on a **lump sum fee of \$465,731** and billed on a monthly basis as the work is performed. There is one subconsultants included in our basic services for this project (See attached proposal from OMI for geotechnical testing and materials report).

EXCLUSIONS

The Scope of Services does not include the work associated with the following items:

- Environmental/Corridor Studies or Alternative Analysis (under separate contract)
- Geotechnical Hazards/Hazardous Materials Investigation and Remediation
- Traffic Counts or Access Management Study
- Structural design/review for drainage culverts or boxes (all drainage structures which are existing will be sized to determine pipe/culvert size and will be designed for replacement/extension using standard city or ALDOT drawings and specification)
- Gas, Telephone, Fiber Optic or TV Cable Relocation Designs
- Sanitary Sewer or Water Design or Relocation Design
- Street lighting/pedestrian lighting or Electrical Engineering Design or Utility Pole Relocation Design
- Landscaping/Irrigation Design
- Retaining Walls greater than 4 feet in height
- Construction Staking, Construction Observations or Construction Administration Services

DETAILED SCOPE OF WORK

The ENGINEER will base the road plans on the approved, preferred alignment and design criteria recommended in the corridor study (under separate contract). All roadway plan development and design will be in general conformance to ALDOT's guidelines for plan development. We will include plans for three existing large box culvert extensions within the corridor limits (based on standard ALDOT drawings). In addition, we will include the FEMA No Rise and/or CLOMR/LOMR for the Withers Spring Branch culvert. The beginning of the project starts 1175 feet west of Segers Road where the project matches the existing 2-lane open ditch section and then transitions to a 5-lane curb and gutter section at Segers Road and continues that typical section to County Line Road (a distance of 1.9 miles). In addition, the project includes

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minor modifications to County Line Road and the signalization design for the County Line Road/Old Hwy. 20 intersection. Retaining walls greater than 4 feet in height will require a structural design, geotechnical testing, and construction inspections. Based on the current City's preferred alignment, we do not anticipate the need for any retaining walls greater than 4 feet in height.

We will utilize the existing topographic data based on the aerial mapping performed by GeoGraphix in 2012. We will perform field surveys to establish control, locate property corners, and utilities. We will prepare contract plans for the Road Widening project in accordance with ALDOT Plan Development guidelines (excluding geotechnical testing and materials report which will meet City of Huntsville standards and be reviewed by ALDOT Div. 2 and excluding other modifications requested by the City and which are noted in the detailed scope below). We will attend all meetings with the City, ALDOT, various other regulators and utility providers for reviews, coordination and approval of plans.

The scope is based on the current City-approved, preferred horizontal and vertical alignment to widen to the north side of the existing roadway and to design a 5-lane road section at a 45 mph design speed with curbs, sidewalks and bicycle lanes on both sides and a closed storm drainage system designed to a 25-year storm event. (See the attached typical section sketch for anticipated design criteria and design assumptions.)

At the request of the City and based on the City-approved, preferred alignment described above, the Engineer will prepare Right-of-Way acquisition tract sketches and legal descriptions within nine (9) days of Notice to Proceed (currently it is estimated that final City Council approval will take place on Dec. 6, 2012 and therefore, the ROW tract sketches/legals will be delivered on or before Dec. 15, 2012). The City understands that this task will be completed prior to design plan production.

We will coordinate with various utility providers along the corridor and provide a base map to each respective utility such that they can provide a design for the utility relocations. To the best of our ability, we will assist the City with obtaining the Utility Agreements but cannot guarantee the cooperation or completion by all utilities. The ENGINEER will use the English system in performing all work under this agreement. All design work, contract plans and bid documents will be performed at one time for one phase of construction. We anticipate that all work can be completed within 15 months from Notice to Proceed. This schedule allows for review and comments by the City of 2-3 weeks each for 0%, 30%, 60% and 90% reviews. In addition, it allows for reviews by ALDOT for PS&E (90%) at Division level, and Quality Control Review and Construction Review with each State review taking 2-3 months.

The work to be performed by the ENGINEER will include Plan Assembly and Studies, as follows:

SECTION 1 – ENVIRONMENTAL/CORRIDOR STUDY (NOT IN CONTRACT)

SECTION 2 - FIELD SURVEY

TASK A - MOBILIZATION AND BASIC CONTROL SURVEY

- A-1 The ENGINEER will determine and contact all adjacent property owners either verbally or by letter throughout the length of the project prior to beginning any survey work.
- A-2 A basic control survey will be performed by the ENGINEER to locate and identify horizontal and vertical control points, which will provide control in the project corridor and will be the basis of subsequent surveys. All surveying and mapping will be performed in accordance with the Standards of Practice for Land Surveying in the State of Alabama and comply with the City of Huntsville accuracy requirements. The basic control survey will be performed to at least horizontal geodetic Third Order, Class II and Vertical geodetic Third Order classification and be tied to State Plane coordinates. The basic control survey is to consist of P.I. to P.I. traverse with the distance and angles measured. The ENGINEER will verify all data supplied by the OWNER or from any other source and will be responsible for accuracy of the work developed from such data. Project

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benchmarks will be monumented as required at intervals not to exceed 1000 feet along the project corridor and will be established to U.S.G.S. datum.

TASK B. PROJECT ALIGNMENT AND PROFILE

- B-1 The ENGINEER will run closure of the basic control survey to verify that the traverse qualifies for the specified classification accuracy. If the closure specification requirements are not met, sufficient additional surveying will be performed by the ENGINEER to meet specification requirements.
- B-2 The ENGINEER will establish by ground survey the proposed project centerline stationing and run in all curves. Ground profiles for the project centerline will be obtained via aerial topography.
- B-3 Topographic data will be obtained using aerial topography and meet the accuracy standards necessary to provide a 1-foot contour interval data base with points and breaklines. Additional field surveys will be performed to identify and locate, as may be practical, other features such as septic tanks, other underground tanks, and on-site sewerage field lines. The ENGINEER will provide a completed field map for review by the OWNER.

TASK C. SUPPLEMENTAL CONTROL SURVEYS AND DATA GATHERING

- C-1 Traverses will be run by the ENGINEER on all paved crossroads to a distance of 150 feet each way from the project centerline (with the topographic survey of minor side roads extending along the cross road for a distance of 500 feet and topographic survey of major side roads extending along the cross road for a distance of 1000 feet). All topo obtained by the ENGINEER will be referenced to the traverse baselines.
- C-2 The ENGINEER will obtain stream topo and data (approximately 500 feet upstream and downstream) using aerial topography. (Additional floodplain cross sections will be obtained to meet ALDOT guidelines.) Field surveys will be performed to obtain high water elevations, existing culvert and bridge sizes, inverts, sketches, etc. for all structures within the corridor.
- C-3 Drainage areas for the project will be defined and a schematic drainage area map prepared and furnished to the OWNER.
- C-4 The survey for the DTM will be to a level sufficient to extract cross sections on 50 feet intervals, plot construction limits and determine quantities for the entire corridor length and be based on the aerial topography.

TASK D. UTILITY SURVEYS, DRAINAGE SECTIONS, AND COMPILATION OF DATA

- D-1 The ENGINEER will perform supplemental ground control surveys as necessary to properly identify existing utilities throughout the project limits. The following utility items will be obtained and furnished by the ENGINEER to the OWNER based on information obtained from utility companies, surface features, field markings and/or utility maps:
 - 1. Utility ownership and address of owner.
 - 2. Location and elevation of all visible storm drain and sanitary sewer manholes, inlets, and inverts. Size and type of material will also be obtained (*ALDOT HYD-101 Forms will be completed*).
 - 3. Location and elevation of visible evidence of gas, water, steam or other pipelines and utility facilities above and underground including but not limited to valves, hydrants, meters, vents, pump houses, etc. Size and type of valves and pipes will be shown, based on information obtained from utility companies.
 - 4. Location of telephone, electric, fiber optic and cable lines, both aerial and underground, will be obtained.
- D-2 Hydrological Location Surveys will be obtained by the ENGINEER in order to determine drainage areas, floodplains and perform hydrologic and hydraulic calculations in accordance with the ALDOT Hydraulics Manual.
- D-3 The ENGINEER will tie to the project centerline all available front corners of affected properties as well as any section corners within the project corridor. Fence lines or other evidence of property lines shall also be obtained.

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- D-4 Copies of the latest recorded deed for each affected property will be obtained by the ENGINEER from courthouse records. For those properties located in a subdivision, copies of plats will be obtained for all of the platted properties affected. In addition, a copy of the latest county tax map and plat will be obtained. Copies of all deeds, plats, and tax maps will be furnished to the OWNER as soon as possible after survey work is begun. The ENGINEER is to plot all properties on the completed right-of-way map from the latest recorded deeds showing station and offset of all property corners obtained and section corner. A property insert drawn to a suitable scale is to be included for properties extending off the field map.
- D-5 P.I.'s, P.C.'s, P.O.T.'s, P.O.C.'s, and any other critical points will be set and referenced by the ENGINEER for the project centerline alignment.
- D-6 Survey field notes will be reduced and all calculations performed which are necessary to determine X, Y and Z coordinates of all points. The OWNER will be furnished all original field notebooks, or printouts, used in the surveys. Electronically recorded notes will be submitted on disk as an ASCII listing of point numbers, point codes, X, Y, Z coordinates and descriptors.
- D-7 All survey work performed by the ENGINEER will be reviewed and the work sealed with signature by a registered land surveyor in the State of Alabama on a mylar plot of the accepted field map.

SECTION 3: PRELIMINARY ROADWAY PLANS, EARLY COORDINATION & SCOPING PHASE

- A-1 Prepare preliminary construction cost estimates for the proposed improvements along the preferred alignment (as recommended by the Corridor Study). Review Project Design Criteria in cooperation with the City's project engineer. Attend meeting to determine project limits, intersection layout; pavement loading requirements; preferred alignment; restricted areas and maximum limits of construction; develop design criteria; verify typical section; early coordination with utilities on relocations; coordination with other consultants, such as geotechnical engineer.
- A-2 Plot existing horizontal and vertical alignment to determine existing grades, curvature and design speed. The OWNER shall verify the preferred alignment.
- A-3 In conjunction with the OWNER, develop general design criteria for all roadways within the project limits, including tentative typical sections, determine points of access, intersection locations, number of roadway lanes (for main roadways and cross streets), turn lanes, stacking requirements, transition lengths, deceleration/acceleration lanes, paint striping, traffic movements, intersection geometry and striping, etc..
- A-4 The OWNER shall perform traffic counts for the project. The ENGINEER shall perform a capacity analysis of Design Year Traffic and data for the preferred alternate for the main roadway and any other roadway where traffic volumes warrant such analysis. Make recommendations as necessary to insure a satisfactory level of service. Our traffic analysis and traffic modeling will be for the purpose of determining the geometric design of the roads and intersections, including signalization plan development.
- A-5 Based on project design considerations mutually agreed to between the ENGINEER and the OWNER, the ENGINEER will review the preferred alignment at a scale of 1"=100' as required to verify feasibility showing edge of pavements, construction limits, break points and nominal right-of-way width. Profiles for the centerline of the project and cross streets will be developed as required to assure workability at suitable scale as approved by the OWNER.
- A-6 Prepare a rough layout of proposed drainage structures and pipes for construction.
- A-7 Develop approximate construction limits for the preferred alignment. Develop preliminary cost of construction based on per foot construction costs for typical roadway sections and relocation of major utilities, as applicable for the preferred alternate design.
- A-8 Prepare Documents, Handouts, and Cost Estimates for a meeting with all City staff to finalize the Preferred Alignment. Resolve all comments and make revisions as necessary.

SECTION 4 – GEOTECHNICAL TESTING AND MATERIALS REPORT

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The ENGINEER will subcontract all geotechnical testing and materials report for the roadway and pavement design for the corridor, including borings for utility pole base foundation designs and culvert extensions. The ENGINEER will coordinate the geotechnical testing and materials report development. All work will be performed in accordance with the City of Huntsville's guidelines for roadway plan development (not ALDOT standards). It is our understanding that the Materials Report will be reviewed by ALDOT Division 2 (not M&T Bureau in Montgomery). See attached proposal from OMI.

SECTION 5 - CONTRACT PLANS

The ENGINEER will perform the following as applicable:

- A-1 The development of the plans and the sheets anticipated for this project are outlined in the attached Spreadsheet under Roadway Plans. All plans will be prepared in general conformance with ALDOT's guidelines.
- A-2 The ENGINEER will prepare hydraulic designs and supporting calculations according to ALDOT's Hydraulic Manual (design to a 25-year storm event for pipe capacities).
- A-3 The ENGINEER will, without compromising safety, select a hydraulic design that is cost effective. Designs will comply with the requirements of the OWNER.
- A-4 The ENGINEER, in the development of the designs, will conduct investigations to ensure that the geometric design of pavements is such that the drainage capacity of the pavement is not exceeded in such way as to create potentially unsafe water-film depths for hydroplaning to occur. Particular attention will be given to transition sections and sags of all vertical curves.
- A-5 Edge of Pavement Profiles with true elevations will be shown in the plans for all horizontal curve transitions and sag vertical curves where curb and gutter sections and/or a paved island is used.
- A-6 Since there are blueline streams and a floodplain along Withers Spring Branch within the corridor, the ENGINEER shall perform a flood study for Withers Spring branch and prepare a No-Rise Certificate and/or a CLOMR/LOMR application for this culvert extension/replacement. The OWNER is responsible to obtain the existing FEMA flood study and model for this tributary and provide the data to the ENGINEER in order to limit the amount of data entry and to assure continuity with the previous study results and calibration of models. We will prepare a nationwide U. S. Army Corps of Engineers 404 permit application for the Withers Spring culvert extension. The scope does not include any wetland mitigation, stream mitigation plan, stream realignment and/or bank stabilization design.
- A-7 Each Project plan assembly, submitted by the ENGINEER for hydraulic review, will contain no less than the minimum amount of hydraulic and hydrologic data necessary to comply with ALDOT's Hydraulic Manual.
- A-8 The ENGINEER will prepare topographic quad maps showing drainage outfalls and other pertinent project data as required by ADEM for the application of storm water permit. The ENGINEER will prepare an erosion and sedimentation prevention plan, including devices and/or designs for structural controls that conform to latest ADEM publications of BMP's (Best Management Practices). Any application fees required by ADEM will need to be paid by the Owner as an added fee above and beyond our basic services. The erosion and sediment control plan will show all 3 phases of construction (pre-constr., during and post-constr.) on the same sheet in order to limit the erosion control plans to 6 sheets as requested by the City.
- A-9 Each project Plan Assembly will include title, typical sections, latest drainage design, plan and profile sheets, and all other sheets required for all work including grade, drain, base, pave, signing, and striping. Drainage structure information will be placed on the plans. The plans will show all existing topographical features, natural and man-made, surface and subsurface facilities for the area included in the proposed right-of-way and an area of at least 50 feet in width adjacent to the proposed right-of-way. The contract plans will be completed in detail for all construction in general conformance with current design practices for ALDOT. Basic computations will be made for alignment and for layout of intersections.

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 Old Hwy. 20 from Segers to Co. Line Rd. Scope of Services
 Nov. 19, 2012
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- A-10 Drainage Section drawings will be provided for all drains, existing and proposed, along the project centerline and within the project work limits. Streambed data acquired from a field survey will be used where applicable to establish and depict the streambed slope, the drain inlet, the drain outlet and the profile configuration of the ditch or channel as it ties-in to the drain.
- A-11 Prepare designs and detailed contract plans at a horizontal scale of 1" = 50' and vertical scale of 1" = 5', completely dimensioned for roadway construction, together with drainage and intersection layouts. Cross sections will be plotted at 100-foot intervals for the main road at a horizontal and vertical scale of 1"=10'. Cross sections for Segers Road is estimated at 5 sections (500' north at 100-ft intervals) and for County Line Road is limited to 5 sections (500' north at 100-ft intervals) in order to reflect the right-turn lane which is proposed to be added to the south bound lanes at the intersection with Old Hwy 20. All cross sections will be at a 1"=10H and 1"=10V. *The total number of sheets outlined in the man-day estimate is given as an approximation of the level of effort required to perform the basic services. If additional sheets are required to perform extra services or special drawings of complicated intersections at larger scales, offsite profiles of drainage structures or offsite easement drawings, then a supplemental agreement will be needed to add the extra sheets.*
- A-12 Arrangements will be made by the CITY with any affected utility owner to prepare plans for any utility relocations. Following the 60% Review, the ENGINEER will provide utility base sheets to the OWNER showing existing utilities for OWNER use and coordination with the utility companies. The finalized utility base sheets will be a part of the respective final plan assembly. All CAD work, drawings and quantity estimates for the proposed utility relocations will be the responsibility of each utility owner and is not part of our scope.
- A-13 The applicable provisions of the City of Huntsville Standard Specifications and Engineering Standards and the STATE OF ALABAMA DEPARTMENT OF TRANSPORTATION Standard Specifications for Highway Construction will apply to all work performed by the ENGINEER under this AGREEMENT. The ENGINEER will prepare supplemental specifications and special provision for approval of the OWNER covering any needed items not covered by the aforementioned documents.
- A-14 Prepare estimates of quantities and construction cost for each set of contract plans, itemized and properly symbolized in accordance with the Standard Specifications above noted, using unit prices as supplied or approved by the OWNER on projects of comparable work in the general area of the project. Upon completion of the plans, copies of the Quantity Computations will be furnished to the OWNER.
- A-15 Preliminary detailed plans and estimates for each construction project shall be submitted to the OWNER before the final tracings are completed. The ENGINEER will prepare a Traffic Control Plan.
- A-16 The ENGINEER will coordinate these plans with existing and proposed plans of the OWNER.
- A-17 The ENGINEER will prepare plans using size and weight of pens and other drafting techniques that will facilitate the development of one half (1/2) scale drawings.
- A-18 Following the 60% Review, the ENGINEER will make appropriate revisions to plans, then submit plans along with the corresponding CADD utility files for use of the OWNER in obtaining utility relocation information.
- A-19 After the 60% Review, the ENGINEER will prepare reproducible right-of-way map showing property ties, restricted areas and ownerships and submit to the OWNER with the latest recorded deeds not previously submitted and preliminary plans showing construction limits for use of the OWNER in acquiring right-of-way along the corridor.
- A-20 Submit all necessary materials and attend all plan reviews plus as required by the OWNER in accordance with the Contract. The ENGINEER will prepare and submit to the City of Huntsville all necessary plans, specifications, reports, etc. for 30% completion review, 60% Review and 90% Review. In addition, the ENGINEER will attend three ALDOT reviews and prepare half-sized sets for ALDOT Reviews, including 12 sets for PS&E, 9 sets for Quality Control Review and 5 sets for Construction Review.
- A-21 After all plan revisions have been made, the ENGINEER will deliver the final deliverables to the OWNER as defined in the Contract.

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Old Hwy. 20 from Segers to Co. Line Rd. Scope of Services
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SECTION 6 – BRIDGE PLANS (NOT IN CONTRACT)

SECTION 7 - RIGHT-OF-WAY MAP, DEEDS AND TRACT SKETCHES

- A-1 The ENGINEER will coordinate with the CITY and ALDOT to insure sufficient information for the preparation of Right-of-Way map and deeds.
- A-2 The ENGINEER will prepare a Right-of-Way map showing the existing and proposed limits for all properties within the corridor. Acquisitions are anticipated to be primarily on the north side of the corridor and assumes no more than 18 Right-of-Way acquisitions (no easements).
- A-3 The ENGINEER will prepare new deeds for all affected properties and prepare tract sketches of each tract based on Route Survey requirements and in accordance with the Alabama Standards of Practice for Land Surveying in the State of Alabama and ALDOT guidelines.
- A-4 Set property corners for all acquired properties.

SECTION 8 – ELECTRICAL ENGINEERING AND STREET LIGHTING DESIGN (NOT IN CONTRACT)

SECTION 9 – LANDSCAPING AND IRRIGATION DESIGN (NOT IN CONTRACT)

SECTION 10 – SANITARY SEWER DESIGN AND UTILITY RELOCATION DESIGNS (NOT IN CONTRACT)

SECTION 11 – PRE-BID ASSISTANCE (NOT IN CONTRACT)

In addition to the above explanation of the engineering services, we have attached the City's Excel Spreadsheet outlining the various tasks to be performed with this contract and the subsequent fees for each task. The Engineer shall prepare all plans, specifications, reports, etc. in accordance with ALDOT's standards and guidelines.

Thank you for this opportunity to provide services for the City of Huntsville.

Sincerely,
Johnson & Associates Consulting Engineers, LLC



Nathan G. Johnson, PE, LS
Managing Member

Attachments

[illegible]

11/19/2012

City of Huntsville Engineering Division

12:10 PM

Project No.	
Project Name	Old Hwy 20 Widening - Segers to Co. Line (\$5.85M Constr. Budget)
Description	Road Widening Design for a 5-lane, Intersection & Signal Design
Scope of Work	Survey, ROW Tract Surveys & Final Roadway Plan Design (ALDOT Stds.)
Project Length	1.9mi. main rd + 0.28mi. side rds (1175' W of Segars Rd to Co. Line Rd)
C.O.H. Project Engineer	
Engineering Consultant	Johnson & Associates Consulting Engineers, LLC

GRAND TOTAL OF FEE PROPOSAL

	Labor Cost	Out-of-pocket Expenses	Fee
Corridor Study	\$0.00	\$0.00	\$0.00
Field Surveys	\$40,390.00	\$706.00	\$41,096.00
Preliminary Roadway Plans	\$0.00	\$0.00	\$0.00
Preliminary Bridge Plans	\$0.00	\$0.00	\$0.00
Right-of-Way Map, Tract Sketches and Deeds	\$21,250.00	\$372.00	\$21,622.00
Roadway Plans	\$394,868.20	\$8,145.00	\$403,013.20
Bridge Plans	\$0.00	\$0.00	\$0.00
Drainage Plans	\$0.00	\$0.00	\$0.00
Sanitary Sewer Plans	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00
GRAND TOTAL FEE			\$465,731

LABOR RATES	Effective Time Period	Oct 1 2012 thru Sept 30 2013
Classification	Hourly Rate	Assigned Personnel
Project Engineer	\$122.50	Wade Shadden, Tom Cunningham
Environmental Scientist	\$0.00	Not Applicable
Design Engineer	\$115.00	Wade Shadden, Stan Herring
Engineer Tech. / CADD	\$85.00	Adam Crenshaw, David McPherson
Clerical	\$50.00	Jack Bales
PLS	\$145.00	Nathan Johnson
Survey Crew	\$175.00	Bob Dozier, EG Meredith, Caleb Johnson

Signed



Date

11-19-12

Position/Title

Managing Member

11/19/2012

City of Huntsville Engineering Division

1:09 PM

Project No.			
Project Name Old Hwy 20 Widening - Segers to Co. Line (\$5.85M Constr. Budget)			
Description Road Widening Design for a 5-lane, Intersection & Signal Design			
Scope of Work Survey, ROW Tract Surveys & Final Roadway Plan Design (ALDOT Stds.)			
Project Length 1.9mi. main rd + 0.28mi. side rds (1175' W o			
C.O.H. Project Engineer			
Engineering Consultant Johnson & Associates Consulting Engineers, LLC			
FIELD SURVEY		PLS	Engineer Survey Tech. / Crew CADD
Based on a 3 Man Crew		ESTIMATED MAN-DAYS	
Task			
Contact Property Owners	0.25	0.00	0.50
Perform Basic Control Survey	0.50	3.00	0.50
Obtain Topographic Data	0.00	0.00	0.00
Define Drainage Areas/Prepare Schematic Drainage Map	0.50	0.00	1.00
Identify/Locate Utilities	0.25	4.00	3.50
Tie to Required Property Corners	0.75	3.00	1.75
Obtain Copies of Latest Deeds	0.25	0.00	1.00
Set & Reference PIs, PCs, POTs, POCs, & other critical points	0.25	3.00	0.50
Prepare Detailed Topographical/Field Map	1.00	0.00	2.50
Stream Topography, Cross Sections & HYD-100 & 101 Forms	0.50	2.00	2.00
Topographic survey will utilize existing 2012 DTM provided by Geographix	0.25	0.00	1.00
Route Survey Only - No boundary surveys of individual tracts or Section Ties	0.00	0.00	0.00
Copies of All Field Books, Reduced Notes, Surveys & Digital Files	0.25	0.00	0.50
TOTALS	4.75	15.00	14.75

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Project No.
Project Name Old Hwy 20 Widening - Segers to Co. Line (\$5.85M Constr. Budget)
Description Road Widening Design for a 5-lane, Intersection & Signal Design
Scope of Work Survey, ROW Tract Surveys &
Project Length 1.9mi. main rd + 0.28mi. side r
C.O.H. Project Engineer
Engineering Consultant Johnson & Associates Consulting Engineers, LLC
Out-of-pocket Expenses (Field Survey)

PRINTING / REPRODUCTION COST

Type of printing/reproduction	# of Sets	Sheets per Set	Total Sheets	Cost per Sheet	Total
Field Maps	2	8	16	\$ 4.00	\$ 64.00
Utility Maps	2	8	16	\$ 4.00	\$ 64.00
ROW Maps	2	8	16	\$ 4.00	\$ 64.00
Working prints, drafts, revisions, etc.	4	24	96	\$ 1.00	\$ 96.00
Prel. Field Map, Utility Map & ROW Map	2	24	48	\$ 1.00	\$ 48.00
	0	0	0	\$ -	\$ -
Total Printing/Reproduction C					\$ 336.00

Communication Cost (telephone, fax, etc.)	Total
	\$ -

Postage Cost (overnight, stamps, etc.)	Total
5 field books, copies of field books, raw data printouts, stakeouts, etc.	\$ 120.00

Other (provide description on next line)	Total
Stakes, control monuments, markers, hubs, paint, flagging, etc.	\$ 250.00

Total Out-of-pocket Expenses	\$ 706.00
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Comments:

11/19/2012

City of Huntsville Engineering Division

1:09 PM

Project No.			
Project Name Old Hwy 20 Widening - Segers to Co. Line (\$5.85M Constr. Budget)			
Description Road Widening Design for a 5-lane, Intersection & Signal Design			
Scope of Work Survey, ROW Tract Surveys & Final Roadway Plan Design (ALDOT Stds.)			
Project Length 1.9mi. main rd + 0.28mi. side rds (1175' W of Segars Rd to Co. Line Rd)			
C.O.H. Project Engineer			
Engineering Consultant Johnson & Associates Consulting Engineers, LLC			
Fee Proposal (Field Survey)			
PERSONNEL COST			
	Man-days	Daily Rate @ 8hrs/day	
Project Engineer	2.50	\$ 980.00	\$ 2,450.00
PLS	4.75	\$ 1,160.00	\$ 5,510.00
Survey Crew	15.00	\$ 1,400.00	\$ 21,000.00
Engineer Tech. / CADD	14.75	\$ 680.00	\$ 10,030.00
Clerical	3.50	\$ 400.00	\$ 1,400.00
	Sub-Total		\$ 40,390.00
SUB-CONSULTANTS (attach man-day & fee FROM each sub-consultant; show total fee for each here)			
Staking PC's, PI's, etc. will be for Phase 2 Only		\$	-
Basic Control Surveys will include benchmarks & hor. control traverses		\$	-
Field Topo limited to utilities for Phase 2 only		\$	-
Field location of property corners limited to Phase 2 only		\$	-
Geographix-Aerial Topo entire corridor, 1'-contours, spot elev.s 50' grid		\$	-
		\$	-
Subconsultant Administration Expense (5%)		\$	-
	Sub-Total	\$	-
TOTAL LABOR			\$ 40,390.00

11/19/2012

City of Huntsville Engineering Division

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Project No.				
Project Name Old Hwy 20 Widening - Segers to Co. Line (\$5.85M Constr. Budget)				
Description Road Widening Design for a 5-lane, Intersection & Signal Design				
Scope of Work Survey, ROW Tract Surveys & Final Roadway Plan Design (ALDOT Stds.)				
Project Length 1.9mi. main rd + 0.28mi. s				
C.O.H. Project Engineer				
Engineering Consultant Johnson & Associates Consulting Engineers, LLC				
ROW Map, Tract Sketches and Deeds		Engineer		
		PLS	Survey Tech. / Crew CADD	
Estimated number of takings= 18		ESTIMATED MAN-DAYS		
Task A: Right-of-Way Map		1.00	0.00	2.00
Task B: Tract Sketches		3.00	0.00	5.00
Task C: Deeds		1.50	0.00	4.00
Task D: Right-of-Way/Acquired Parcel Staking		0.25	2.00	0.50
All tract sketches will be Route Survey standards which meets AL SOP		0.00	0.00	0.00
TOTALS		5.75	2.00	11.50

Note: A "Taking" is any separate piece of property acquired by the C.O.H. This includes parcels, drainage easements, construction easements, etc.

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Project No.			
Project Name Old Hwy 20 Widening - Segers to Co. Line (\$5.85M Constr. Budget)			
Description Road Widening Design for a 5-lane, Intersection & Signal Design			
Scope of Work Survey, ROW Tract Surveys & Final Roadway Plan Design (ALDOT Stds.)			
Project Length 1.9mi. main rd + 0.28mi. side rds (1175' W of Segars Rd to Co. Line Rd)			
C.O.H. Project Engineer			
Engineering Consultant Johnson & Associates Consulting Engineers, LLC			
Fee Proposal (ROW Map, Tract Sketches & Deeds)			
PERSONNEL COST			
	Man-days	Daily Rate @ 8hrs/day	
Project Engineer	2.00	\$ 980.00	\$ 1,960.00
PLS	5.75	\$ 1,160.00	\$ 6,670.00
Survey Crew	2.00	\$ 1,400.00	\$ 2,800.00
Engineer Tech. / CADD	11.50	\$ 680.00	\$ 7,820.00
Clerical	5.00	\$ 400.00	\$ 2,000.00
	Sub-Total	\$	21,250.00
SUB-CONSULTANTS (attach man-day & fee FROM each sub-consultant; show total fee for each here)			
No. of tracts assumes 18 ROW & 0 Easement takings = 18 total		\$	-
		\$	-
		\$	-
Subconsultant Administration Expense (5%)		\$	-
	Sub-Total	\$	-
TOTAL LABOR		\$	21,250.00

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City of Huntsville Engineering Division

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Project No.
Project Name Old Hwy 20 Widening - Segers to Co. Line (\$5.85M Constr. Budget)
Description Road Widening Design for a 5-lane, Intersection & Signal Design
Scope of Work Survey, ROW Tract Surveys & Final Roadway Plan Design (ALDOT Stds.)
Project Length 1.9mi. main rd + 0.28mi. side r
C.O.H. Project Engineer
Engineering Consultant Johnson & Associates Consulting Engineers, LLC
Out-of-pocket Expenses (ROW Map, Tract Sketches & Deeds)

PRINTING / REPRODUCTION COST

Type of printing/reproduction	# of Sets	Sheets per Set	Total Sheets	Cost per Sheet	Total
Prel. Tract Sketches	2	32	64	\$ 0.50	\$ 32.00
Prel. Deeds	2	32	64	\$ 0.50	\$ 32.00
Prel. ROW Map	2	12	24	\$ 1.50	\$ 36.00
Final Tract Sketches	1	32	32	\$ 0.50	\$ 16.00
Final Deeds	1	32	32	\$ 0.25	\$ 8.00
Final ROW Map	1	12	12	\$ 4.00	\$ 48.00
Total Printing/Reproduction C					\$ 172.00

Communication Cost (telephone, fax, etc.)	Total
	\$ -

Postage Cost (overnight, stamps, etc.)	Total
	\$ -

Other (provide description on next line)	Total
Iron pins, stakes, flagging, markers, & ROW markers	\$ 200.00

Total Out-of-pocket Expen:	\$ 372.00
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Comments:

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City of Huntsville Engineering Division

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Project No.							
Project Name Old Hwy 20 Widening - Segers to Co. Line (\$5.85M Constr. Budget)							
Description Road Widening Design for a 5-lane, Intersection & Signal Design							
Scope of Work Survey, ROW Tract Surveys & Final Roadway Plan Design (ALDOT Stds.)							
Project Length 1.9mi. main rd + 0.28mi. ε							
C.O.H. Project Engineer							
Engineering Consultant Johnson & Associates Consulting Engineers, LLC							
ROADWAY PLANS	# OF SHEETS	ESTIMATED MAN-DAYS					
		Project Engineer		Design Engineer		Engineer Tech. / CADD	
		DAYS/ SHEET	TOTAL	DAYS/ SHEET	TOTAL	DAYS/ SHEET	TOTAL
SHEET TITLE							
TITLE SHEET	1.00	0.50	0.50	0.50	0.50	0.50	0.50
INDEX SHEET	1.00	0.50	0.50	0.50	0.50	0.50	0.50
PROJECT NOTE SHEET	3.00	0.25	0.75	0.25	0.75	0.50	1.50
PLANS LEGEND	3.00	0.25	0.75	0.25	0.75	0.50	1.50
TYPICAL SECTIONS							
Main Roadway	2.00	1.00	2.00	1.50	3.00	1.50	3.00
Cross Roads	2.00	1.00	2.00	1.50	3.00	1.50	3.00
Detour & Misc.	2.00	1.00	2.00	1.00	2.00	1.00	2.00
Ramps	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Standard Details & Project Specific Details	6.00	0.25	1.50	0.50	3.00	0.50	3.00
Geometric Layout and Survey Control	3.00	0.25	0.75	0.50	1.50	0.50	1.50
SUMMARY SHEET							
Main Summary	0.50	1.00	0.50	1.00	0.50	1.00	0.50
SUMMARY BOX SHEETS							
Roadway Pipe	0.50	1.00	0.50	1.00	0.50	1.00	0.50
Culvert Extension, New Culvert	0.50	1.00	0.50	1.00	0.50	1.00	0.50
Bridge Culvert Extension, New Bridge Culvert	0.50	1.00	0.50	1.00	0.50	1.00	0.50
Guardrail	0.25	1.00	0.25	1.00	0.25	1.00	0.25
Slope Paving (Under Bridges)	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Side Drain Pipe	0.25	1.00	0.25	1.00	0.25	1.00	0.25
Signing	0.25	1.00	0.25	1.00	0.25	1.00	0.25
Base & Pavement	0.25	1.00	0.25	1.00	0.25	1.00	0.25
Bridge	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Striping & Pavement Markings	0.25	1.00	0.25	1.00	0.25	1.00	0.25
Curb & Gutter	0.25	1.00	0.25	1.00	0.25	1.00	0.25
Bridge End Slabs	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Roadway Lighting	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Sidewalk	0.25	1.00	0.25	1.00	0.25	1.00	0.25
Slope Paving (Ditches)	0.25	1.00	0.25	1.00	0.25	1.00	0.25
Ditch Summary	0.25	1.00	0.25	1.00	0.25	1.00	0.25
Concrete Safety Barrier	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Retaining Wall	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Misc. Boxes	0.25	1.50	0.38	1.50	0.38	1.00	0.25
Erosion Control	0.50	1.50	0.75	1.50	0.75	1.00	0.50
Soil Boring Logs	8.00	0.10	0.80	0.10	0.80	0.25	2.00

11/19/2012

City of Huntsville Engineering Division

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ROADWAY PLANS	# OF SHEETS	ESTIMATED MAN-DAYS					
		Project Engineer		Design Engineer		Engineer Tech. / CADD	
		DAYS/ SHEET	TOTAL	DAYS/ SHEET	TOTAL	DAYS/ SHEET	TOTAL
SHEET TITLE							
PLAN & PROFILE							
Main Roadway	6.00	1.75	10.50	2.50	15.00	2.50	15.00
Crossroads	3.00	1.75	5.25	2.50	7.50	2.50	7.50
Detours	1.00	1.75	1.75	2.50	2.50	2.50	2.50
Retaining Walls	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ret. Walls over 4' will require supplemental	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PAVING LAYOUT							
Main Roadway	6.00	0.75	4.50	0.75	4.50	0.75	4.50
Crossroads	3.00	0.75	2.25	0.75	2.25	0.75	2.25
Intersections	2.00	0.75	1.50	0.75	1.50	0.75	1.50
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTERCHANGES							
Geometrics	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ramps Profiles	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cross Sections	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Signing	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coordination w/ RR (Not in Contract)	0.00	2.00	0.00	4.00	0.00	2.00	0.00
TRAFFIC CONTROL							
Sequence of Construction	2.00	1.50	3.00	2.00	4.00	2.00	4.00
Summary & notes	1.00	1.50	1.50	1.50	1.50	1.50	1.50
Typical Section Sketches	1.00	1.00	1.00	1.50	1.50	1.50	1.50
Signing Layout	12.00	0.50	6.00	0.75	9.00	0.75	9.00
Special Drawings	6.00	0.50	3.00	0.75	4.50	0.75	4.50
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STRIPING & SIGNING							
Signing, Striping & Pavement Markers Layout	9.00	0.50	4.50	0.75	6.75	0.75	6.75
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SIGNALIZATION							
Signal Layout (1 per site)	1.00	1.50	1.50	2.50	2.50	2.50	2.50
Traffic Analysis	1.00	1.00	1.00	5.00	5.00	0.00	0.00
Traffic Counts (1 per site)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Signal Warrant Analysis (1 per site)	1.00	1.00	1.00	4.00	4.00	0.00	0.00
Special Details	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Timing & implementation phasing by COH	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UTILITY SHEETS							
Utility Sheets	6.00	0.25	1.50	0.25	1.50	0.25	1.50
Utility Agreements & Limited Coordination	1.00	2.00	2.00	1.00	1.00	0.50	0.50
DRAINAGE SECTIONS							
Pipe&Culvert X-Sect./Profiles	20.00	0.30	6.00	0.75	15.00	0.60	12.00
CBMPP + ADEM/NPDES Appl.	1.00	1.00	1.00	5.00	5.00	0.25	0.25
No-Rise Cert/Flood Study or CLOMR/LOMR	1.00	0.25	0.25	7.00	7.00	0.25	0.25
LIGHTING							
Plan Layout	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Special Details	0.00	0.00	0.00	0.00	0.00	0.00	0.00
No Electrical design included in the fee	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EROSION CONTROL							
Erosion Control Layout	6.00	0.45	2.70	0.55	3.30	0.55	3.30

11/19/2012

City of Huntsville Engineering Division

1:10 PM

ROADWAY PLANS SHEET TITLE	# OF SHEETS	ESTIMATED MAN-DAYS					
		Project Engineer		Design Engineer		Engineer Tech. / CADD	
		DAYS/ SHEET	TOTAL	DAYS/ SHEET	TOTAL	DAYS/ SHEET	TOTAL
Erosion Control Details	3.00	0.20	0.60	0.50	1.50	0.50	1.50
ROADWAY CROSS SECTIONS							
Main Roadway	34.00	0.20	6.80	0.45	15.30	0.45	15.30
Crossroads	4.00	0.20	0.80	0.45	1.80	0.45	1.80
Earthwork Balancing	1.00	1.00	1.00	2.00	2.00	1.00	1.00
All X-Sections at 100' intervals & 1"=10' H&V	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SUB-TOTAL	169.00		88.83		147.58		124.90
REVIEW MEETINGS							
Design Criteria/Kickoff			1.00		1.00		1.00
30% Review			1.00		1.00		1.00
60% Review			1.00		1.00		1.00
90% Review			6.00		6.00		6.00
Stormwater Permits			1.00		2.00		1.00
Drainage Report			1.00		10.00		1.00
Cost Estimates			2.00		2.00		2.00
Design Hearing			1.00		1.00		1.00
			0.00		0.00		0.00
			0.00		0.00		0.00
			0.00		0.00		0.00
SUB-TOTAL			14.00		24.00		14.00
TOTAL MAN-DAYS			102.83		171.58		138.90

Project No.		
Project Name Old Hwy 20 Widening - Segers to Co. Line (\$5.85M Constr. Budget)		
Description Road Widening Design for a 5-lane, Intersection & Signal Design		
Scope of Work Survey, ROW Tract Surveys & Final Roadway Plan Design (ALDOT Stds.)		
Project Length 1.9mi. main rd + 0.28mi. side rds (1175' W of Segars Rd to Co. Line Rd)		
C.O.H. Project Engineer		
Engineering Consultant Johnson & Associates Consulting Engineers, LLC		
Fee Proposal (Roadway Plans)		
PERSONNEL COST		
	Man-days	Daily Rate @ 8hrs/day
Project Engineer	102.83	\$ 980.00 \$ 100,773.40
Design Engineer	171.58	\$ 920.00 \$ 157,853.60
Engineer Tech. / CADD	138.90	\$ 680.00 \$ 94,452.00
Clerical	16.00	\$ 400.00 \$ 6,400.00
	Sub-Total	\$ 359,479.00
SUB-CONSULTANTS (attach man-day & fee FROM each sub-consultant; show total fee for each here)		
Geotechnical testing & pavement design (City of Hsv Std. Only)		\$ 33,704.00
No Structural Review/Details (assume ALDOT Std Dwgs. For Culverts)		\$ -
		\$ -
Subconsultant Administration Expense (5%)		\$ 1,685.20
	Sub-Total	\$ 35,389.20
	TOTAL LABOR	\$ 394,868.20

11/19/2012

City of Huntsville Engineering Division

1:10 PM

Project No.	
Project Name	Old Hwy 20 Widening - Segers to Co. Line (\$5.85M Constr. Budget)
Description	Road Widening Design for a 5-lane, Intersection & Signal Design
Scope of Work	Survey, ROW Tract Surveys & Final Roadway Plan Design (ALDOT Stds.)
Project Length	1.9mi. main rd + 0.28mi. side rds (1175' W of Segars Rd to Co. Line Rd)
C.O.H. Project Engineer	
Engineering Consultant	Johnson & Associates Consulting Engineers, LLC
Out-of-pocket Expenses (Roadway Plans)	

PRINTING / REPRODUCTION COST

Type of printing/reproduction	# of Sets	Sheets per Set	Total Sheets	Cost per Sheet	Total
30% Review Plans	2	150	300	\$ 1.00	\$ 300.00
60% Review Plans	3	185	555	\$ 1.00	\$ 555.00
90% Review Plan	3	235	705	\$ 1.00	\$ 705.00
Final Deliverables	3	235	705	\$ 3.00	\$ 2,115.00
ALDOT PS&E, QC & Constr. Reviews	15	235	3525	\$ 1.00	\$ 3,525.00
Working Drawings, Revisions, etc.	3	235	705	\$ 1.00	\$ 705.00
Total Printing/Reproduction C					\$ 7,905.00

Communication Cost (telephone, fax, etc.)	Total
	\$ -

Postage Cost (overnight, stamps, etc.)	Total
	\$ 240.00

Other (provide description on next line)	Total
	\$ -

Total Out-of-pocket Expenses **\$ 8,145.00**

Comments:

OMI, Inc.

November 9, 2012

Johnson and Associates
1218-B Church Street NW
Huntsville, AL 35801

ATTN: Mr. Nathan Johnson

SUBJECT: Proposal for Soil Survey and Materials Report
Proposed Old Highway 20 Widening Phase II
Huntsville, Limestone County, AL
OMI Proposal No. P-3976C

Gentlemen:

OMI, Inc., is pleased to present this proposal for Soil Survey and Materials Report for the referenced project. Preparatory to this proposal, OMI discussed the proposed construction with Mr. Nathan Johnson of Johnson and Associates. This proposal describes the project information and presents a planned scope of work, fee consideration, and a schedule for performing the work.

PROJECT INFORMATION

OMI understands that the City of Huntsville plans to design and construct the widening of Old Highway 20 in three phases. Phase II of the road widening will begin about 1200-ft west of Segars Road and extend east about 1.9 miles to County Line Road. The present concept is to widen the present two lane road to five lanes. OMI anticipates the widening will occur either to the north or the south of the existing road for the length of the project. The existing road appears to have been constructed in both cut and fill sections and is generally within 5-ft of the adjacent land proposed for additional lanes. OMI anticipates the proposed road will be within 1-ft to 2-ft of the existing two lane road grade. A signalized intersection is planned for County Line Road (3 mast arm foundations). In addition, two culvert extensions are planned. OMI does not anticipate any soft soil

Johnson and Associates
OMI Proposal No. P-3976C
November 9, 2012
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studies will be required. OMI understands the asphalt on the existing two lane road will be ripped and removed from the roadway.

SCOPE OF SERVICES

OMI proposes to drill borings every 400-ft on center in the existing road as well in the proposed roadway. Borings will also be drilled at the proposed signal location and culverts where necessary. Standard penetration testing (ASTM D1586-84) will be performed in the soils. Undisturbed samples and bulk samples will be collected where appropriate. No rock coring is anticipated. OMI proposes to perform a 20 year design based on traffic data provided by the City of Huntsville. In addition, OMI assumes the City of Huntsville will obtain site access clearance prior to drilling.

Laboratory testing will be performed on selected samples. Laboratory tests include natural moisture content tests, Atterberg limits, sieve and hydrometer analyses, standard Proctor compaction tests, and subgrade resilient modulus (MR) tests for strength and subgrade resilient support characteristics on selected soils.

REPORTING

Upon completion of the field and laboratory testing, a materials report will be prepared for the pavement presenting the findings, conclusions, and recommendations relative to the proposed road.

COST ESTIMATE

OMI, Inc., recommends the following fee based on the outlined scope of work. Design changes and field conditions may dictate a change in the scope of work and budget; however, the total budget

OMI, Inc.

Johnson and Associates
 OMI Proposal No. P-3976C
 November 9, 2012
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will not be exceeded without prior authorization. This fee assumes that special environmental procedures are not required.

<u>PHASE II SUBSURFACE STUDIES</u>	
Mobilization of truck-mounted drill rig	\$400.00
Soil test borings – 52 to 10-ft @ \$12.00/ft	\$6,240.00
Soil test borings – 3 to 30-ft @ \$12.00/ft	\$1,080.00
Soil test borings – 4 to 20-ft @ \$12.00/ft	\$960.00
Difficult moving – 8 hrs @ \$125.00/hr	\$1,000.00
Traffic control – 2 days, 2 men @ \$400/day	\$1,600.00
Traffic control equipment	\$500.00
Laboratory testing (moisture control, Atterberg limits, sieve analyses, hydrometer, MR tests)	\$7,004.00
Project Geologist/Engineer for drill administration, logging and analysis 6 days @ \$680 per day	\$4,080.00
Geotechnical Engineer for analysis and data evaluation and reporting – 7 days @ \$720 per day	\$5,040.00
Principal Geotechnical Engineer for analysis data evaluation, reporting, and client consultation – 4 days @ \$1,000 per day	\$4,000.00
Clerical – 2 days @ \$360 per day	\$720.00
CAD Operator – 3 days @ \$360 per day	\$1,080.00
Total	\$33,704.00

SCHEDULE

OMI can begin work immediately upon receiving authorization including site access from Johnson and Associates. OMI estimates that we can complete the drilling, field work and laboratory work in about six to ten weeks. A draft report with design recommendations can be given two to four weeks later, depending upon information obtained regarding traffic volumes and alternatives requested by the client. OMI will keep you informed during the field and laboratory phases of the work and will provide preliminary recommendations and evaluations of the conditions as work progresses.

OMI, Inc.

Johnson and Associates
OMI Proposal No. P-3976C
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AUTHORIZATION


To authorize OMI, Inc., to provide these services, please execute and return the attached Work Authorization Sheet. Please note any special instructions or information such as billing or site access requirements on this Work Authorization Sheet. Also enclosed with this proposal are General Conditions which discuss such items as right-of-entry, insurance, and invoicing. These Conditions are considered an integral part of this proposal.

* * * * *

OMI, Inc., appreciates the opportunity to provide this proposal for services to Johnson & Associates and the City of Huntsville. Please direct any questions regarding this proposal to the undersigned.

Respectfully submitted,

OMI, Inc.


Christopher S. Jones, E.I.
Staff Engineer


John M. Oziet, P. E.
Senior Engineer

Distribution: 1 Copy to Addressee via Email

Attachments: General Conditions
Work Authorization Sheet

OMI, Inc.

ATTACHMENT 2 - ALABAMA IMMIGRATION ACT - REPORT OF OWNERSHIP FORM**CITY OF HUNTSVILLE, ALABAMA REPORT OF OWNERSHIP FORM****A. General Information.** Please provide the following information:

- Legal name(s): Tokson & Associates Consulting Engineers, LLC
- Doing business as (if applicable): _____
- City of Huntsville current taxpayer identification number (if available): 1587715
(Please note that if this number has been assigned by the City and if you are renewing your business license, the number should be listed on the renewal form.)

B. Type of Ownership. Please complete the un-shaded portions of the following chart by checking the appropriate box below and entering the appropriate Entity I.D. Number, if applicable:

Type of Ownership (check appropriate box)	Entity I. D. Number ¹	Formation Documents (if required see footnote 2 below) ²	Immigration Law Applies	Individuals Who Must Be Verified Under Immigration Law
<input type="checkbox"/> Individual or Sole Proprietorship	Not Applicable	Not Applicable	Yes	Each individual or sole proprietor
<input type="checkbox"/> Partnership	Not Applicable	See Paragraph C	Yes	Each partner if an individual
<input type="checkbox"/> Limited Partnership	Number: _____	Formation Documents (See Paragraph C)	Yes	Each general partner if an individual
<input type="checkbox"/> Limited Liability Partnership (LLP)	Number: _____	Formation Documents (See Paragraph C)	No, unless not a Registered LLP	Each partner of a Non-Registered LLP if an individual
<input type="checkbox"/> Limited Liability Company (LLC) (Single Member)	Number: _____	Formation Documents	Yes	Sole member if an individual
<input checked="" type="checkbox"/> LLC (Multi-Member)	Number: <u>27-1867033</u>	Formation Documents	No	Not Applicable
<input type="checkbox"/> Corporation	Number: _____	Formation Documents	No	Not Applicable
<input type="checkbox"/> Other, please explain: _____	Number: _____ (If a filing entity under state law)	To be determined	To be determined	To be determined

C. Immigration Law. Please note that each owner who is an individual, as identified in the last column of the chart above, must provide proof of U.S. Citizenship or lawful alien presence in accordance with Ala. Act 2011-535 by completing the applicable forms, as provided by the City. In the case of a partnership whose partners must be verified, you are requested to please provide a copy of the Partnership Agreement or other appropriate documentation evidencing the names of each individual who is a partner in the partnership, unless such information is available by searching the Alabama Secretary of State's website and an Entity I.D. Number has been provided.

¹ **Entity I.D. Numbers.** If an Entity I.D. Number is required and if the business entity is registered in this state, the number is available through the website of Alabama's Secretary of State at: www.sos.state.al.us/, under "Government Records". If a foreign entity is not registered in this state please provide the Entity I.D. number (or other similar number by whatever named called) assigned by the state of formation along with the name of the state.

² **Formation Documents.** Formation documents, including articles or certificates of incorporation, organization, or other applicable formation documents of the entity, as recorded in the probate records of the applicable county and state of formation, are not required unless: (1) specifically requested by the City, or (2) an Entity I.D. Number is required and one has not been assigned or provided.

ATTACHMENT 3
CITY OF HUNTSVILLE STANDARDS AND DESIGN GUIDES

1. City of Huntsville Standard Specifications for Construction of Public Improvements. Contract Projects, 1991.
2. City of Huntsville Engineering Standards, 1991.
3. City of Huntsville Design and Acceptance Manual for Force Mains and Pump Stations, 2011.
4. City of Huntsville Design and Acceptance Manual for Sanitary Sewers, 2011.
5. Alabama Department of Transportation Standard Specifications for Highway Construction, Current Edition.
6. City of Huntsville Subdivision Regulations, 1991.

ATTACHMENT 4
DESIGN REVIEWS

0% COMPLETE – PRE-DESIGN CONFERENCE

The ENGINEER shall meet with the OWNER at a 0% complete - Pre-Design Conference. The OWNER's representative (Project Engineer) will be introduced.

CONFERENCE FORMAT

The pre-design meeting will be initiated by the OWNER. The purpose of the conference will be to give the ENGINEER an opportunity to discuss the design of the PROJECT, to visit the PROJECT site, to receive copies of OWNER -furnished documents, if applicable, and to meet the OWNER'S Project Engineer and other personnel working on the PROJECT.

ATTENDEES: (Required)

- | | |
|---|---|
| <ul style="list-style-type: none">• ENGINEER• ALDOT (as appropriate for the type of project)• Real Estate | <ul style="list-style-type: none">• Landscape Management• Utilities• Traffic Engineering• Planning |
|---|---|

DISCUSSION TOPICS :

- | | |
|---|--|
| <ul style="list-style-type: none">• Authority of OWNERS representative (Written submittal made to the ENGINEER)• Scope of Work• Time Requirements• Budget Restraints• Testing Requirements• Permit Responsibilities• Design criteria• LC&E requirements• Plan Requirements• Special Conditions• Utility Project Notification and a list of all utilities that need to be contacted. | <ul style="list-style-type: none">• Tree Ordinance |
|---|--|

REQUIRED SUBMITTALS TO THE PROJECT ENGINEER

1. A Certificate of Insurance for the ENGINEER and the ENGINEER's subconsultants shall be submitted to the OWNER's PROJECT ENGINEER per Section 10.6.
2. Prior to the Pre-Design Conference, a completed **draft** design criteria document shall be prepared to the best of the ENGINEER'S ability and in conformance with his fee proposal and will serve as the basis of a discussion topic during the Pre-Design Conference. A **final** version of the design criteria based upon discussion during the meeting shall be prepared by the ENGINEER and distributed with the meeting minutes. A copy of a design criteria format may be found on the City of Huntsville web site at <http://www.huntsvilleal.gov/engineering/index.php>.
3. Within seven (7) calendar days of the 0% Complete - Pre-Design Conference, the ENGINEER shall submit to the OWNER's Project Engineer two color copies and an electronic copy of a schedule in Microsoft Projects format showing the critical path and indicating the time frame for the required milestone events and submittals outlined in this document. The schedule shall support a PROJECT completion date in accordance with the Period Of Services in Article 5. When approved, a baseline of the schedule shall be saved from which variances in the schedule can be measured and evaluated.

ATTACHMENT 4
DESIGN REVIEWS

30% COMPLETE – CONCEPTUAL DESIGN

This design review is to show the OWNER how the functional and technical requirements will be met, to indicate the ENGINEER's approach to the solution of technical problems, to show compliance with design criteria or to justify noncompliance and to provide an estimate of probable cost. A field review shall be conducted at this juncture with the OWNER's staff and the ENGINEER to review the proposed field alignment of the PROJECT.

CONFERENCE FORMAT

ATTENDEES: (Required)

- Real Estate
- Landscape Management
- Utilities
- Traffic Engineering
- Planning
- City of Huntsville Construction Project Manager
- City of Huntsville Inspector
- City of Huntsville Environmental Representative

DISCUSSION TOPICS:

- ENGINEER presents recommended design/solutions along with other options and alternatives considered.
- ENGINEER presents updates on progress of permitting requirements
- ENGINEER presents progress on coordination with other project participants such as the State of Alabama, sub consultants, etc.
- ENGINEER presents budgetary constraints

REQUIRED SUBMITTALS TO THE PROJECT ENGINEER

1. A preliminary list of all permits to be obtained with associated fees.
2. An updated schedule in Microsoft Projects format showing the critical path shall be submitted.
3. Two color copies and an electronic copy of an updated schedule in Microsoft Projects format showing the critical path shall be submitted.

ATTACHMENT 4
DESIGN REVIEWS

60% COMPLETE – PRELIMINARY DESIGN CRITERIA

The review of the PROJECT at this point is primarily to insure that funding limitations are not being exceeded and to insure that the contract documents, design analysis and cost estimates are proceeding in a timely manner, and that the design criteria and previous review comments are being correctly interpreted. An additional review may be required by the OWNER to review changes proposed from previous submittals.

CONFERENCE FORMAT

ATTENDEES: (Required)

- Real Estate
- Landscape Management
- Utilities
- Traffic Engineering
- Planning
- City of Huntsville Construction Project Manager
- City of Huntsville Inspector
- City of Huntsville Environmental Representative

DISCUSSION TOPICS:

- Additional land acquisition needs, as required.
- Utility Project Notification and a list of all utilities that need to be contacted.
- Technical specifications for special construction items not covered under standard specifications or deviations from standard specifications.
- Update on progress of permitting requirements.
- Erosion control plan requirements, if required by the OWNER.
- Budget constraints.
- Progress on coordination with other project participants such as the City of Huntsville Real Estate Officers (Engineering Department), State of Alabama, sub consultants, etc.

REQUIRED SUBMITTALS TO THE PROJECT ENGINEER

1. One full size print copy and one ½ size print copy of all drawings that have incorporated previous comments shall be submitted. Plan/Profile drawings shall be 75% complete. Right-of way drawings shall be 100% complete at this submittal (reference Real Estate Division Plan Requirements Section entitled DRAWINGS, included at the end of this proposal)
2. An update to the schedule in Microsoft Projects format showing the critical path shall be submitted.
3. Unless determined to be inapplicable by the OWNER, Hydraulic reports 75% complete, shall be submitted.
4. Three (3) copies of preliminary plans for utilities shall be submitted.
5. Legal descriptions for takings shall be submitted. The information shall be 100% complete. (reference Real Estate Division Plan Requirements Section entitled DESCRIPTIONS, included at the end of this proposal)
6. Traffic Control Plan, if required. Plan shall be 60% complete at this submittal.
7. Detailed preliminary construction cost estimate shall be submitted.
8. Results of geotechnical investigations shall be submitted.
9. A list of comments made at the 30% review and a summary of each resolution.
10. Two color copies and an electronic copy of an update to the schedule in Microsoft Projects format showing the critical path shall be submitted.

ATTACHMENT 4
DESIGN REVIEWS

90% COMPLETE – FINAL REVIEW

The review of this submittal is to ensure that the design is in accordance with directions provided the ENGINEER during the design process.

CONFERENCE FORMAT

DISCUSSION TOPICS

Discussion topics will be handled open forum.

REQUIRED SUBMITTALS TO THE PROJECT ENGINEER

1. One full size print copy and one ½ size print copy of all drawings that have incorporated previous comments shall be submitted. Submittals include Plan/Profile drawings, Construction Details, Detailed cross-sections with cut and fill quantities and storm and sanitary sewer crossings, Erosion control plan, if required, Technical specifications, Right-of way drawings, Traffic Control Plan, Plans for Utilities, Signed Acceptance of Utility Project Notification Form by all affected parties, Design Calculations, and a final cost estimate. All submittals shall be 100% complete.
2. Any changes to Land Acquisition needs shall be identified and Legal descriptions for the changes shall be submitted.
3. A list of comments made at the 60% review and a summary of each resolution.
4. Calculations showing how quantities were determined for each bid item and how the item is to be measured in the field and paid. Three bound copies of corrected quantity calculations to match bid quantities. The following shall be required for each item:
 - Item Number
 - Item Description with standard specification used
 - Detailed calculation to include all measurements, conversion factors, and "standard" weights used
 - Final "calculated" amount and any "increased" amounts
 - Notes to include any deviation from referenced standard specifications

ATTACHMENT 4
DESIGN REVIEWS

100% COMPLETE – READY TO ADVERTISE

After the 90% review, the ENGINEER shall revise the construction documents by incorporating any comments generated during the previous design reviews. The ENGINEER shall prepare final hard copy contract specifications, prepare a bid form, and update the cost estimate as necessary.

CONFERENCE FORMAT

This is a submittal only. **Return this sheet with submittal**

<u>YES</u>	<u>NO</u>	REQUIRED SUBMITTALS TO THE PROJECT ENGINEER
<input type="checkbox"/>	<input type="checkbox"/>	1. Two (2) sets of complete construction drawing prints sized 24" x 36" sealed and marked "ISSUED FOR CONSTRUCTION". Drawings information shall be referenced to Alabama State Plane Coordinate system, NAD1983 Alabama East Zone as described in the <u>Code of Alabama</u> (1975), Section 35-2-1. Surveys shall be tied to a minimum of two accepted GPS monuments or one GPS tie point plus an astronomic observation to determine grid north or GPS Survey.
<input type="checkbox"/>	<input type="checkbox"/>	2. One (1) Micro station digital and One (1) digital file in either .tiff or .pdf format of construction drawings (must be signed and sealed) – sized 11" x 17".
<input type="checkbox"/>	<input type="checkbox"/>	3. Two (2) sets of right-of-way drawing prints sized 24" x 36" sealed and marked "ISSUED FOR CONSTRUCTION". Drawings information shall be referenced to Alabama State Plane Coordinate system. NAD1983 Alabama East Zone
<input type="checkbox"/>	<input type="checkbox"/>	4. One (1) Micro station digital file of right-of-way drawings.
<input type="checkbox"/>	<input type="checkbox"/>	5. Two (2) print sets of 8-1/2" x 11" legal descriptions for right-of-way (REVISED SETS ONLY)
<input type="checkbox"/>	<input type="checkbox"/>	6. One (1) digital text file of legal descriptions for right-of-way (REVISED FILE ONLY)
<input type="checkbox"/>	<input type="checkbox"/>	7. One (1) print copy of Final Construction Cost Estimate.
<input type="checkbox"/>	<input type="checkbox"/>	8. One (1) digital spread sheet file of Final Construction Cost Estimate.
<input type="checkbox"/>	<input type="checkbox"/>	9. Three (3) printed and bound copies of corrected quantity calculations to match Final Bid Quantities.
<input type="checkbox"/>	<input type="checkbox"/>	10. One (1) digital spread sheet file (Excel 2003 format) of Final Bid Quantities.
<input type="checkbox"/>	<input type="checkbox"/>	11. Two (2) print sets of contract specifications.
<input type="checkbox"/>	<input type="checkbox"/>	12. One (1) digital text file of contract specifications.
<input type="checkbox"/>	<input type="checkbox"/>	13. One (1) complete set of signed and sealed calculations.
<input type="checkbox"/>	<input type="checkbox"/>	14. One (1) complete set of all approved permits including Location, Character, and Extent, COE, ADEM, etc.
<input type="checkbox"/>	<input type="checkbox"/>	15. One (1) complete set of all field notes.
<input type="checkbox"/>	<input type="checkbox"/>	16. One (1) copy of digital aerial photography obtained for this PROJECT in (.tif) format, as necessary.
<input type="checkbox"/>	<input type="checkbox"/>	17. Utility Project Notification forms and a list of all utilities that need to be contacted.

_____ Engineer

ATTACHMENT 5 - ENGINEERS PERSONNEL FEE SCHEDULE**STANDARD SCHEDULE OF HOURLY FEES**

Johnson and Associates

Effective: Oct. 1, 2012 to Sept. 30 2013

PERSONNEL DESCRIPTION		HOURLY AMOUNT (\$ Range)
Surveying & Engineering:		
Surveyor I	Survey Technician (Rodman)	\$40
Surveyor II	Survey Technician (Instrumentman)	\$55
Surveyor III	Junior Party Chief	\$70
Surveyor IV	Survey CAD Technician	\$75
Surveyor V	Senior Party Chief	\$85
Surveyor VI	Survey Manager	\$125
Surveyor VII	Principal Surveyor	\$145

Engineer I	Engineering Student/Part-Time Intern	\$55
Engineer II	Entry-Level Engineering Intern	\$65
Engineer III	Design Engineering Intern	\$75
Engineer IV	Project Design Engineer	\$85
Engineer V	Project Design Engineer	\$100
Engineer VI	Senior Project Engineer	\$115
Engineer VII	Senior Managing Engineer/Project Manager	\$130
Engineer VIII	Principal Engineer	\$145

Technical & Inspection:		
Technician I	Entry-Level CAD Technician Intern	\$50
Technician II	Junior Engineering CAD Technician	\$60
Technician III	Engineering CAD Technician	\$70
Technician IV	Engineering CAD Technician	\$75
Technician V	Senior Engineering CAD Technician	\$80

Inspector I	Periodic Observation/Junior Inspector	\$80 - \$100
Inspector II	Resident Inspection/Junior Inspector	\$70 - \$90
Inspector III	Periodic Observation/Senior Inspector	\$115
Inspector IV	Resident Inspection/Senior Inspector	\$105

Administrative / Secretarial	\$50
-------------------------------------	------

Survey Crew:	
Two-Man Survey Crew	\$135
Three-Man Survey Crew	\$175
Four-Man Survey Crew	\$215

Subcontract Services	Cost Plus 10%
-----------------------------	---------------

Direct Expenses	Cost Plus 10%
------------------------	---------------

These rates will remain in effect through the duration of the contract

5% MAG
5%

ATTACHMENT 6 - PROGRESS REPORT
(Article 8)

PROGRESS REPORT NO. _____ FOR MONTH AND YEAR _____

PROJECT _____ PROJECT NO. _____

DATE _____ CITY'S PROJECT ENGINEER _____

CONSULTANT _____ CONSULTANT'S PROJ. MAN. _____

CURRENT MONTH % COMPLETE: _____ PREV. MONTH % COMPLETE: _____

ATTACH A "SHOULD HAVE STARTED TASKS REPORT" AND A "SLIPPING TASKS REPORT" FROM MICROSOFT PROJECTS THAT LISTS ALL ACTIVITY THAT IS BEHIND SCHEDULE.

ATTACH A "TASKS STARTING SOON" REPORT FROM MICROSOFT PROJECTS WITH A DATE RANGE OF THIRTY (30) DAYS AFTER THE DATE OF THIS PROGRESS REPORT.

STATE WHAT ACTION IS BEING TAKEN TO BRING PROJECT BACK TO SCHEDULE:

MILESTONE SUBMITTALS	SCHEDULED DATE	ACTUAL DATE
30%	_____	_____
60%	_____	_____
90%	_____	_____
100%	_____	_____
"FINAL" INVOICE SUBMITTED		_____
SUBCONSULTANTS PAID IN FULL		_____
CONTRACTED COMPLETION DATE: March 7, 2014		_____

(These scheduled dates shall be agreed upon at the beginning of the project (Attachment 4) with the Project Engineer and noted monthly on each progress report. The scheduled contract completion date shall not be changed except by contract change order. Changes to the scheduled milestone submittal dates shall be accompanied by a new project schedule approved by the OWNER'S Project Engineer.)

UPDATED SCHEDULE ATTACHED? _____ YES _____ NO

*If yes, send an electronic copy to the Project engineer

COMMENTS:

This progress report (4 copies) shall be submitted monthly. Scheduled completion dates will not be extended without a contract modification.

CERTIFICATION: I certify that the stated information is true and accurate to the best of my knowledge.

CONSULTANT DATE

CITY PROJECT ENGINEER DATE

ATTACHMENT 7 - SUB CONSULTANTS ENGAGED BY THE ENGINEER
(Article 9.2)

CONSULTANT NAME AND ADDRESS	DESCRIPTION OF SERVICES	FEE
OMI, Inc. 5151 Research Drive NW Huntsville, AL 35805	Soil Survey and Materials Report	\$32,018.80
	SUB-TOTAL	\$32,018.80
	5% Administrative Fee	\$1,685.20
	TOTAL	\$33,704.00

ATTACHMENT 8 - CONTRACT DOCUMENT REQUIREMENTS LIST

REQUIREMENT	SUBMIT TO	SUBMITTAL REQUIREMENT DATE	NUMBER OF COPIES	REFERENCE SECTION OF CONTRACT AND COMMENTS
Deviations from OWNER's standards.	OWNER	Prior to incorporating deviations.	2	Article 2.5
Products or materials specified by the ENGINEER that are available from only one source.	OWNER	Prior to 100% submittal.	2	Article 2.2
Approval of ENGINEER's Request for Payment.	OWNER	Within ten (10) days of receipt of the request from the ENGINEER.	N/A	Article 3.4
Approval of ENGINEER submittals	OWNER	So as to cause no delay to the ENGINEER or the PROJECT.	N/A	Article 3.8
Change order changes that reduce construction requirements.	OWNER	Prior to authorizing a change.	N/A	Article 3.11
Any information pertaining to any claim.	OWNER	Immediately	2	Article 3.12
Information pertinent to the PROJECT, all criteria and full information as to OWNER's requirements, copies of all design and construction standards.	ENGINEER	So as to not delay the services of the ENGINEER.	2	Article 5.1, 5.2
Notification of delays.	ENGINEER; OWNER	Promptly	4	Article 6.1
ENGINEER's monthly invoices.	OWNER	Monthly	4	Article 8.1.1
Consultant progress report.	OWNER	Monthly	4	Article 8.1.1
Records, data, parameters, design calculations and other information.	OWNER	Cancellation of contract.	2	Article 9.7
Documentation, records of reimbursable expenses, record copies of all written communications, and any memoranda of verbal communications related to the PROJECT.	OWNER	Upon notice from the OWNER.	2	Article 9.4
Termination notification.	OWNER or ENGINEER	7 days prior to termination.	2	Article 9.10 & 9.11
Certificate of Insurance for ENGINEER.	OWNER	At 0% design conference	1	Article 10.2(B), 10.6, and Attachment 4.
Insurance cancellation, suspension, or reduction in coverage or limits.	OWNER	30 days prior to effective date except for cancellation which is 10 days notification.	1	Article 10.4(A)

Certificate of insurance for sub consultants/subcontractors.	OWNER	At 0% design conference.	1	Article 10.7
A schedule in Microsoft Projects format showing the critical path.	Project Engineer	Within 7 calendar days of Pre-design conference, 30% complete design review. 60% design review. Attachment 6	1 hard; 1 digital	Attachment 4
Drawings.	Project Engineer	30% complete design review, 60% design review, 90% review, and 100% complete.	3	Attachment 4
Cost estimate.	Project Engineer	30% complete design review, 60% review, 90% review, and 100% complete.	3	Attachment 4
Hydraulic reports.	Project Engineer	60% design review.	2	Attachment 4
Preliminary plans for utilities.	Project Engineer	60% design review.	3	Attachment 4
Real Estate Deliverables	Project Engineer	60% design review, 90% review, 100% complete.	Reference Real Estate Division Plan Requirements	Attachment 4, 14 Real Estate Plan Requirements at end of this proposal document
Traffic Control plan.	Project Engineer	60% design review.	N/A	Attachment 4
Results of geotechnical investigations.	Project Engineer	30% design review.	2	Attachment 4
Technical specifications.	Project Engineer	90% review, 100% complete.	N/A	Attachment 4
Relocation of Utilities	Project Engineer	0% review – list of all utilities that need to be contacted 60% review – from all affected parties 90% review – Signed Acceptance Utility Project Notification Form	2	Attachment 4, 10
Design Calculations	Project Engineer	90% review, 100% complete	1	Attachment 4
Digital copy of drawings.	Project Engineer	100% complete – 1 in .dgn format; 1 in .tiff or .pdf format	2	Attachment 4
Digital text files.	Project Engineer	100% complete.	1	Attachment 4
Bid Quantities.	Project Engineer	100% complete. Digital in Excel 2003 format and hard copy	3	Attachment 4
Permits and Permit Applications	Project Engineer	100% complete.	1	Attachment 4
Field notes.	Project Engineer	100% complete.	1	Attachment 4
Digital aerial photography.	Project Engineer	100% complete.	1	Attachment 4
Progress Report (Art. 8)	Project Engineer	30% complete design review, 60% design review, 90% design review, 100% completion stage.	4 hard; 1 digital monthly	Attachment 4

ATTACHMENT 9 - REQUIREMENTS FOR DOCUMENT SUBMITTALS

All drawings shall be sized 24" x 36", unless otherwise approved by the OWNERS Project Engineer.

Title blocks shall as a minimum, contain the name of the project, date, city project number, and ENGINEER's name. The title block of drawings shall contain a space for the names of the preparer and the reviewer and/or checker. These blocks shall be signed on each submittal (See Attachment "11" for sample standard drawing format). Drawings shall contain alphanumeric revision designations. Drawings issued for review shall be issued with alpha revision designation and the revision letter shall be changed for each submittal containing drawing changes. Drawings issued for construction shall be issued with numeric designation at revision level "0" and described as "Issued for Construction" in the revision description block. Subsequent drawing changes require the revision level to be raised using successively higher numbers and the changes to be marked by circling and briefly described in a revision block.

Unless otherwise specified by the Owners Project Engineer, all drawings for review submittals shall be full or half-size copies. All documents shall be clearly marked in a revision block indicating the applicable submittal milestone, i.e. 30%, 60%, 90%, etc.

Submittals required by the State of Alabama for their review, bidding, etc., shall be of the size, form and numbers of copies as the state may require even though such submittals may differ from the submittals set forth as being required elsewhere in this Agreement.

All drawings shall be prepared in Micro station .DGN format, unless otherwise approved by the OWNERS Project Engineer. Transmittal letters shall consist of a list of files being submitted, a description of the data in each file, and a level/layer schematic of each design file. DGN design files shall have working units as follows: master units in feet, no sub-units, and 1,000 positional units. All data submitted shall use NAD 1983 Alabama East Zone horizontal datum and NAVD 88 vertical datum coordinates.

Digital files shall be submitted by 4-3/4" CD ROM, DVD, 3 and 1/2 inch floppy disk, or to the City of Huntsville F.T.P. site.

All print copies shall be first generation copies.

All text documents shall be prepared in Microsoft Word 2007 format.

All spreadsheets shall be in Microsoft Excel 2007 format.

A schedule showing the critical paths shall be in Microsoft Projects format, unless otherwise approved by the OWNERS Project Engineer.

Aerial photography files shall be in Intergraph (.COT) or (.tiff) format.

All mapping shall meet National Map Accuracy Standards unless otherwise noted. If National Map Accuracy Standards are not met, the accuracy of the map shall be identified to the Owners Project Engineer and on the maps derived from the aerial survey. National Map Accuracy Standards are shown below. This and other map standards are shown in Department of the Army, US Army Corps of Engineers standard, "EM 1110-1-1000, Engineering and Design - Photogrammetric Mapping". <http://140.194.76.129/publications/eng-manuals/em1110-1-1000/toc.htm>

ATTACHMENT 10 – UTILITY PROJECT NOTIFICATION FORM

NAME: _____
(Utility Name)

PROJECT NAME: _____ **PROJECT NUMBER:** _____

CONSULTING ENGINEER: _____
(Name)

ENGINEERING REPRESENTATIVE _____ **PHONE:** _____

I have reviewed design drawings or other information as available, and:

DO _____

DO NOT _____

have facilities that will require relocation. If relocation is required, a construction duration of _____ calendar days from the Notice to Proceed, is anticipated to be required for relocation.

LIST NAME(S) OF OTHER UTILITY(S) that share poles or facilities that have to be relocated prior to YOU starting your work:

NAME OF UTILITY: _____

NAME OF UTILITY: _____

NAME OF UTILITY: _____

OTHER: _____

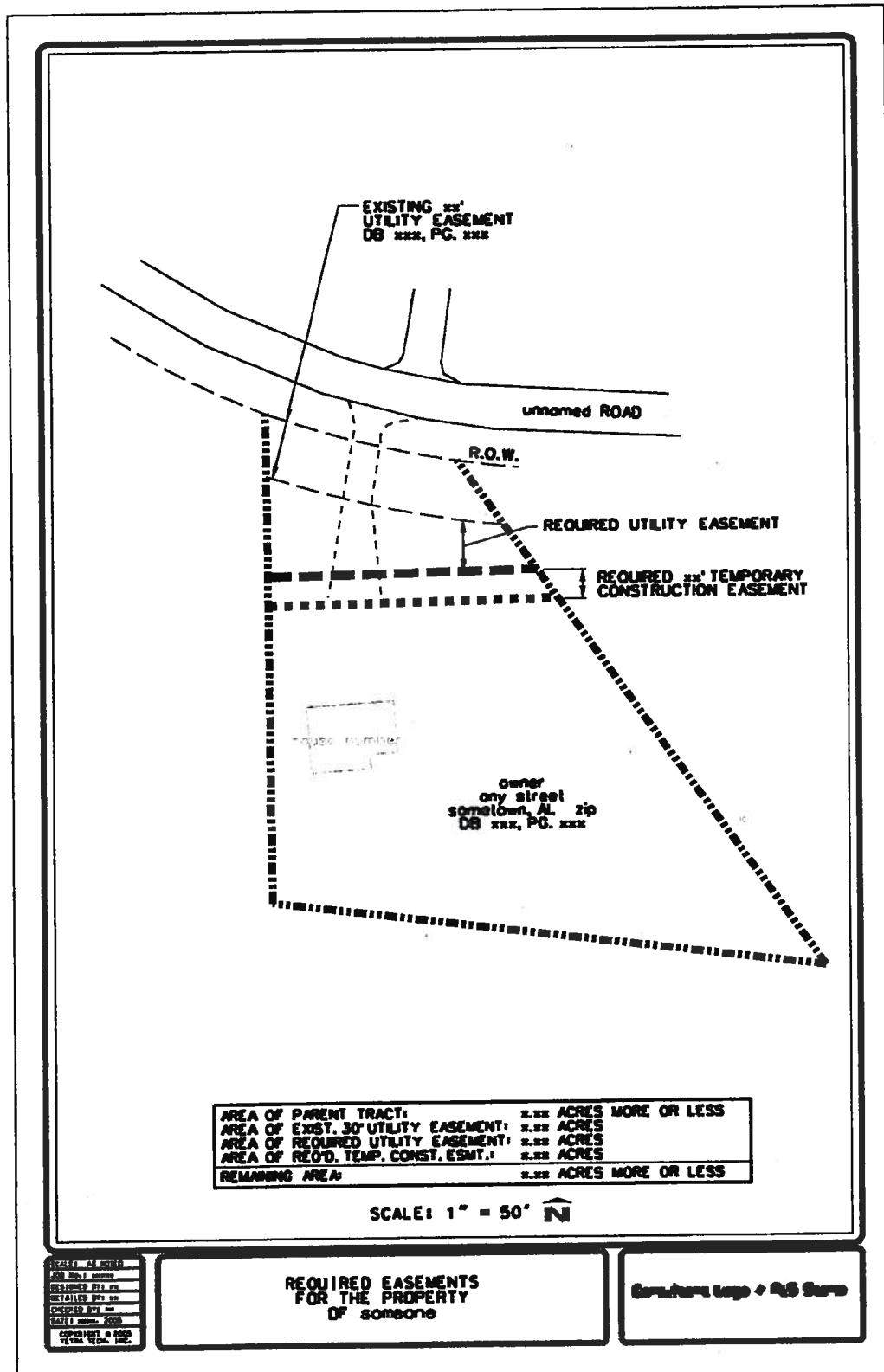
COMMENTS: _____

BY: _____
AUTHORIZED REPRESENTATIVE

FIELD CONTACT PERSON: _____ **PHONE:** _____
OFFICE CONTACT PERSON: _____ **PHONE:** _____

DATE: _____

ATTACHMENT 12
SAMPLE



ATTACHMENT 13

United States National Map Accuracy Standards

With a view to the utmost economy and expedition in producing maps which fulfill not only the broad needs for standard or principal maps, but also the reasonable particular needs of individual agencies, standards of accuracy for published maps are defined as follows:

1. **Horizontal accuracy.** *For maps on publication scales larger than 1:20,000, not more than 10 percent of the points tested shall be in error by more than 1/30 inch, measured on the publication scale; for maps on publication scales of 1:20,000 or smaller, 1/50 inch. These limits of accuracy shall apply in all cases to positions of well-defined points only. Well-defined points are those that are easily visible or recoverable on the ground, such as the following: monuments or markers, such as bench marks, property boundary monuments; intersections of roads, railroads, etc.; corners of large buildings or structures (or center points of small buildings); etc. In general what is well defined will be determined by what is plottable on the scale of the map within 1/100 inch. Thus while the intersection of two road or property lines meeting at right angles would come within a sensible interpretation, identification of the intersection of such lines meeting at an acute angle would obviously not be practicable within 1/100 inch. Similarly, features not identifiable upon the ground within close limits are not to be considered as test points within the limits quoted, even though their positions may be scaled closely upon the map. In this class would come timber lines, soil boundaries, etc.*
2. **Vertical accuracy,** *as applied to contour maps on all publication scales, shall be such that not more than 10 percent of the elevations tested shall be in error more than one-half the contour interval. In checking elevations taken from the map, the apparent vertical error may be decreased by assuming a horizontal displacement within the permissible horizontal error for a map of that scale.*
3. **The accuracy of any map may be tested** *by comparing the positions of points whose locations or elevations are shown upon it with corresponding positions as determined by surveys of a higher accuracy. Tests shall be made by the producing agency, which shall also determine which of its maps are to be tested, and the extent of the testing.*
4. **Published maps meeting these accuracy requirements** *shall note this fact on their legends, as follows: "This map complies with National Map accuracy Standards."*
5. **Published maps whose errors exceed those aforesaid** *shall omit from their legends all mention of standard accuracy.*
6. **When a published map is a considerable enlargement** *of a map drawing (manuscript) or of a published map, that fact shall be stated in the legend. For example, "This map is an enlargement of a 1:20,000-scale map drawing," or "This map is an enlargement of a 1:24,000-scale published map."*
7. **To facilitate ready interchange and use of basic information for map construction** *among all Federal mapmaking agencies, manuscript maps and published maps, wherever economically feasible and consistent with the uses to which the map is to be put, shall conform to latitude and longitude boundaries, being 15 minutes of latitude and longitude, or 7.5 minutes, or 3-3/4 minutes in size.*

U.S. BUREAU OF THE BUDGET

ATTACHMENT 14

ENGINEERING DEPARTMENT - REAL ESTATE DIVISION PLAN REQUIREMENTS

DRAWINGS:

Individual Parcels

- Each individual parcel 8 ½" x 14" (dgn or dxf format)
- Show Calculations
 - Before
 - After
 - Taking
- All Parcels shall be closed shapes (polygons).
- Show Existing and Proposed Right-of-Way on each individual parcel map.
- Property Ownership

Overall Project Land Acquisition Maps

- Total project drawing in dgn or dxf format
- Indicate the following:
 - Stationing on Centerline
 - Existing Right-of-Way
 - Proposed Right-of-Way
 - Existing Easements
 - Proposed Easements
 - Existing Pavement
 - Proposed Pavement/Sidewalks/Structures
 - Existing Structures
 - Property Ownership

<u>Color Standards</u>		<u>(SAMPLE)</u>	
<u>Description</u>	<u>Color</u>	<u>Line Style</u>	<u>Type</u>
Existing ROW	Red	Medium Dashed	Closed Polygon
Proposed ROW	Red	Solid	
Existing Easements	Orange	Medium Dashed	Closed Polygon
Proposed Easements	Orange	Solid	
TCE	Pink	Solid	Closed Polygon

DESCRIPTIONS:

- Microsoft Word on 3.5" Diskette or CD
- Each Description shall be complete and independent (separate file).
- Hard Copies signed and stamped by PLS.

GENERAL:

- P.K. Nails or other permanent stationing markings shall be required.
- Re-staking of right-of-way or easements may be required (See Article 4).
- All survey plats to be on Alabama State Plane Datum. Strip Maps shall indicate at least 2 monuments in place with Alabama State Plane Coordinate values shown on each.
- Parcel plats and legal descriptions shall indicate the Alabama State Plane Coordinate NAD83 Alabama East Zone Value of the point of beginning.

ATTACHMENT 15 - GIS BASE MAP

DESIGN LEVEL	CONTENTS	LINE CODE	COLOR	WEIGHT	TEXT SIZE	FONT	CELL NAME
1	State Plane Coordinate Grid	0	0	0	20	0	
2	Benchmarks	0	0	0			
3	Private Street Text	0	105	0	20	0	
3	Street Text	0	3	0	20 (or 18)	0	
4	Street R/W	7	0	0			
5	Street Centerline	7	0	0			
6	Street Pavement	0	3	0			
6	Proposed Street Pavement	3	16	0			
6	Private Streets	0	105	0			
6	Proposed Private Road	3	105	0			
7	Parking Lots	1	3	1			
7	Private Lots used as Roads	1	105	1			
8	Secondary Roads--Private	2	105	0			
8	Secondary Roads	2	3	0			
8	Trails	3	3	0			
9	Secondary Roads/Trails Text	0	3	0	20	0	
10	Sidewalks	5	3	0			
11	Bridges/Culverts/Paved Ditches	0	0	0			
12	Hydrology - Major	6	1	0			
12	Hydrology - Minor, Ditches	7	1	0			
13	Hydrology - Text	0	1	0	25	23	
14	Tailings & Quarries, Athletic Fields/Text, misc. areas	0	1	0			
15	Greenways	3	48	0			
16	Speed Tables	0	3	0			TCALM
17	Railroad Tracks (Patterned)	0	2	0			RR
18	Railroad Text	0	2	0	25	0	
19	Railroad R/W	2	2	0			
20	Utility Poles (Cell)	0	5	0			P POLE
21	Utility Easements	3	5	0			
22	Utility Text	0	5	1			
23	Geographic Names	0	3	1			
24	Building Structures	0	0	0			
24	Pools and Text	0	1	0	10	1	
24	Future Site of Structures	2	0	0			STRUCT
24	Existing Structures (exact location and shape unknown)	2	0	0			STRCEX
25	Property Lines/ refuge bdy.	6	6	1	30	1	
26	Cadastral Polygons	6	6	0			
27	Ownership Text	0	6	1			
28	Cemeteries/Text	4	6	0	10	1	
29	Lot Numbers				25	0	
30	Block Numbers				30	0	
31	Addition Names	0	0	0	35	0	
32	Open						
33	Lot Ticks						
34	Lot Lines/Property Lines	6	6	0			
35	Trees/Hedge Rows	0	6	0	AS=1		TREES
36	GPS Monuments	0	5	0	18	23	CONTRL

37	2' Topo Contour						
38	5' Topo Contour	0	7	0			
39	25' Major Topo Contour	0	7	0			
40	X Spot Elevation	0	7	0			
41	FEMA Monuments/Labels	0	3/0	0	18	1	FEMA
42	Quarter Sections						
43	Section Lines	0	5	0			
44	Features	0	2	0			
44	Cell Towers	0	12	0	AS=1		CELTWR
45	Fences (Pattern)	0	8	0	AS=1		FENCE
46	Format/Legend	0	0	0			Limleg Madleg
47	Mass Points	0	7	2			
48	Break Lines	0	7	2			
49	Open						
50	Billboards	0	37	1			BBOARD
51	Sanitary Sewer	0		3			
52	Sanitary Sewer Text						
53	Storm Water Features	0		3			
54	Storm Water Text						
55	Open						
56	Property Address	0	1	0			
57	Text Tag for Buildings	0	1	0	10-20	1	
58	One Way Arrows	1	3	1			
59	Open						
60	Open						
61	Open						
62	Monuments for Setup (point cell)						
63	Open						